

STN Columbus

***** Welcome to STN International *****

- NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
- NEWS 2 "Ask CAS" for self-help around the clock
- NEWS 3 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
- NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
- NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
- NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
- NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
- NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
- NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
- NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
- NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
- NEWS 12 MAR 22 PATDPASPC - New patent database available
- NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
- NEWS 14 APR 04 EPFULL enhanced with additional patent information and new fields
- NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

- NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005

=> fil reg; e isopropyl methacrylate/cn		
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
E1      1      ISOPROPYL MESYLGLYCINATE/CN
E2      1      ISOPROPYL METABORATE TRIMER/CN
E3      1 --> ISOPROPYL METHACRYLATE/CN
E4      1      ISOPROPYL METHACRYLATE HOMOPOLYMER/CN
E5      1      ISOPROPYL METHACRYLATE POLYMER/CN
E6      1      ISOPROPYL METHACRYLATE-ITACONIC ACID-METHYLSTYRENE COPOLYMER
          AMMONIA SALT/CN
E7      1      ISOPROPYL METHACRYLATE-ITACONIC ACID-STYRENE COPOLYMER/CN
E8      1      ISOPROPYL METHACRYLATE-METHACRYLAMIDE COPOLYMER/CN
E9      1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID COPOLYMER/CN
E10     1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID-METHYL METHACRYLATE
          COPOLYMER/CN
E11     1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID-METHYL METHACRYLATE
          COPOLYMER AMMONIUM SALT/CN
E12     1      ISOPROPYL METHACRYLATE-METHYL METHACRYLATE COPOLYMER/CN
```

=> s e3

```
L1      1 "ISOPROPYL METHACRYLATE"/CN
```

=> e methylchloroacrylic acid/cn

```
E1      1      METHYLCHLORAMINE/CN
E2      1      METHYLCHLOROACETYLENE/CN
E3      0 --> METHYLCHLOROACRYLIC ACID/CN
E4      1      METHYLCHLOROCARBENE/CN
E5      1      METHYLCHLOROCYCLOBUTANE/CN
E6      1      METHYLCHLORODIMETHOXY-SILANE/CN
E7      1      METHYLCHLORODISILANE-HEXAMETHYL DISILAZANE-PHENYLVINYLDICHLORO
          ROSILANE COPOLYMER/CN
E8      1      METHYLCHLOROETHYLAMINE/CN
E9      1      METHYLCHLOROETHYLAMINE HYDROCHLORIDE/CN
E10     1      METHYLCHLOROFLUOROPHOSPHINE/CN
E11     1      METHYLCHLOROFORM/CN
E12     1      METHYLCHLOROFORM (CH3C35CL3)/CN
```

=> e chloromethylacrylic acid/cn

```
E1      1      CHLOROMETHYL-X-ROSAMINE/CN
E2      1      CHLOROMETHYLACETYLENE/CN
E3      0 --> CHLOROMETHYLACRYLIC ACID/CN
E4      1      CHLOROMETHYLAMINE/CN
```

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E5	1	CHLOROMETHYLAMINE CATION RADICAL/CN
E6	1	CHLOROMETHYLAMINOACETALDEHYDE DIMETHYLACETAL/CN
E7	1	CHLOROMETHYLATED COPPER PHTHALOCYANINE-THIOUREA REACTION PRODUCTS/CN
E8	1	CHLOROMETHYLBENZALDEHYDE/CN
E9	1	CHLOROMETHYLBENZENE/CN
E10	1	CHLOROMETHYLBENZENE OZONE COMPD. (1:1)/CN
E11	1	CHLOROMETHYLBIS(.ETA.5-PENTAMETHYLCYCLOPENTADIENYL)URANIUM/CN
E12	1	CHLOROMETHYLBIS(2,2,2-TRIFLUOROETHOXY)SILANE/CN

=> e vinylformal/cn

E1	1	VINYLFERROCENE-STYRENE COPOLYMER/CN
E2	1	VINYLFUORENE POLYMER/CN
E3	0 -->	VINYLFORMAL/CN
E4	1	VINYLFORMALDEHYDE-VINYL ACETATE COPOLYMER/CN
E5	1	VINYLFORMAMIDE-N-VINYLMIDAZOLE-N-VINYL-2-PYRROLIDONE COPOLYMER/CN
E6	1	VINYLFORMIC ACID/CN
E7	1	VINYLFURAN/CN
E8	1	VINYLFURFURAL POLYMER/CN
E9	1	VINYLGERMANE/CN
E10	1	VINYLGERMANE-70GE/CN
E11	1	VINYLGERMANE-72GE/CN
E12	1	VINYLGERMANE-74GE/CN

=> e dodecyl methacrylate/cn

E1	1	DODECYL MERCAPTOACETATE/CN
E2	1	DODECYL MESYLATE/CN
E3	1 -->	DODECYL METHACRYLATE/CN
E4	1	DODECYL METHACRYLATE HOMOPOLYMER/CN
E5	1	DODECYL METHACRYLATE POLYMER/CN
E6	1	DODECYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WITH ACRYLIC ACID/CN
E7	1	DODECYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID ESTER WITH HYDROXYMETHYL METHACRYLATE/CN
E8	1	DODECYL METHACRYLATE, TELOMER WITH 3-MERCAPTOPROPIONIC ACID, ESTER WITH GLYCIDYL METHACRYLATE/CN
E9	1	DODECYL METHACRYLATE-.GAMMA.-METHACRYLOXYPROPYLTRIMETHOXYSILANE-OCTADECYL METHACRYLATE COPOLYMER/CN
E10	1	DODECYL METHACRYLATE-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL ACRYLATE COPOLYMER/CN
E11	1	DODECYL METHACRYLATE-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL METHACRYLATE COPOLYMER/CN
E12	1	DODECYL METHACRYLATE-1,6-HEXANEDIOL DIACRYLATE COPOLYMER/CN

=> s e3

L2	1	"DODECYL METHACRYLATE"/CN
----	---	---------------------------

=> e octadecyl methacrylate/cn

E1	1	OCTADECYL MERCAPTOACETATE/CN
E2	1	OCTADECYL MESYLATE/CN
E3	1 -->	OCTADECYL METHACRYLATE/CN
E4	1	OCTADECYL METHACRYLATE GRAFT HOMOPOLYMER/CN
E5	1	OCTADECYL METHACRYLATE HOMOPOLYMER/CN
E6	1	OCTADECYL METHACRYLATE POLYMER/CN
E7	1	OCTADECYL METHACRYLATE TELOMER WITH 3-MERCAPTOPROPIONIC ACID, ESTER WITH GLYCIDYL METHACRYLATE/CN
E8	1	OCTADECYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID ESTER WITH 2-HYDROXYETHYL METHACRYLATE/CN
E9	1	OCTADECYL METHACRYLATE-2,3-EPOXYPROPYL METHACRYLATE POLYMER/CN

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E10 1 OCTADECYL METHACRYLATE-2-(DIETHYLAMINO)ETHYL METHACRYLATE CO
POLYMER/CN
E11 1 OCTADECYL METHACRYLATE-2-(TRIMETHOXYSILYLOXY)ETHYL METHACRYL
ATE-TRIETHYLENE GLYCOL DIACRYLATE COPOLYMER/CN
E12 1 OCTADECYL METHACRYLATE-2-(TRIMETHOXYSILYLOXY)ETHYL METHACRYL
ATE-TRIETHYLENE GLYCOL DIACRYLATE-THIOGLYCOLIC ACID TELOMER/
CN

=> s e3

L3 1 "OCTADECYL METHACRYLATE"/CN

=> e octyl methacrylate/cn

E1 1 OCTYL MESITYL SELENIDE/CN
E2 1 OCTYL MESYLATE/CN
E3 1 --> OCTYL METHACRYLATE/CN
E4 1 OCTYL METHACRYLATE HOMOPOLYMER/CN
E5 1 OCTYL METHACRYLATE POLYMER/CN
E6 1 OCTYL METHACRYLATE-.ALPHA.-VINYLNAPHTHALENE COPOLYMER/CN
E7 1 OCTYL METHACRYLATE-1-VINYLMIDAZOLE COPOLYMER/CN
E8 1 OCTYL METHACRYLATE-1-VINYLMIDAZOLE POLYMER/CN
E9 1 OCTYL METHACRYLATE-1H,1H,2H,2H-PERFLUORODECYL METHACRYLATE C
OPOLYMER/CN
E10 1 OCTYL METHACRYLATE-2,2,2-TRIFLUOROETHYL METHACRYLATE COPOLYM
ER/CN
E11 1 OCTYL METHACRYLATE-2-(N-TERT-BUTYLAMINO)ETHYL METHACRYLATE C
OPOLYMER/CN
E12 1 OCTYL METHACRYLATE-2-(TERT-BUTYLAMINO)ETHYL METHACRYLATE COP
OLYMER/CN

=> s e3

L4 1 "OCTYL METHACRYLATE"/CN

=> e pentyl methacrylate/cn

E1 1 PENTYL MERCAPTYL ANION/CN
E2 1 PENTYL MESYLATE/CN
E3 1 --> PENTYL METHACRYLATE/CN
E4 1 PENTYL METHACRYLATE HOMOPOLYMER/CN
E5 1 PENTYL METHACRYLATE-METHYL METHACRYLATE BLOCK COPOLYMER/CN
E6 1 PENTYL METHACRYLATE-PERDEUTERATED STYRENE BLOCK COPOLYMER/CN
E7 1 PENTYL METHACRYLATE-PROPENE GRAFT COPOLYMER/CN
E8 1 PENTYL METHACRYLATE-PROPYL METHACRYLATE COPOLYMER/CN
E9 1 PENTYL METHACRYLATE-PROPYLENE COPOLYMER/CN
E10 1 PENTYL METHACRYLATE-STYRENE BLOCK COPOLYMER/CN
E11 1 PENTYL METHACRYLATE-TRIALLYL CYANURATE COPOLYMER/CN
E12 1 PENTYL METHANEPHOSPHINATE/CN

=> s e3

L5 1 "PENTYL METHACRYLATE"/CN

=> e propyl methacrylate/cn

E1 1 PROPYL METAPHOSPHIMATE, TETRAMER/CN
E2 1 PROPYL METAPHOSPHIMATE, TRIMER/CN
E3 1 --> PROPYL METHACRYLATE/CN
E4 1 PROPYL METHACRYLATE HOMOPOLYMER/CN
E5 1 PROPYL METHACRYLATE POLYMER/CN
E6 1 PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
H ACRYLIC ACID/CN
E7 1 PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
H CROTONIC ACID/CN
E8 1 PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
H METHACRYLIC ACID/CN
E9 1 PROPYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID 2-HYDROXY

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```

-3-METHACRYLOYLOXYPROPYL ESTER/CN
E10      1      PROPYL METHACRYLATE-1-VINYLNAPHTHALENE GRAFT COPOLYMER/CN
E11      1      PROPYL METHACRYLATE-ETHYLENE GLYCOL GRAFT COPOLYMER/CN
E12      1      PROPYL METHACRYLATE-ISOPRENE COPOLYMER/CN

=> s e3
L6        1 "PROPYL METHACRYLATE"/CN

=> e tetradecyl methacrylate/cn
E1        1      TETRADECYL MERCAPTAN/CN
E2        1      TETRADECYL MERCAPTOACETATE/CN
E3        1 --> TETRADECYL METHACRYLATE/CN
E4        1      TETRADECYL METHACRYLATE HOMOPOLYMER/CN
E5        1      TETRADECYL METHACRYLATE-METHACRYLIC ACID COPOLYMER/CN
E6        1      TETRADECYL METHACRYLATE-STYRENE-DIVINYLBENZENE COPOLYMER/CN
E7        1      TETRADECYL METHACRYLATE-STYRENE-DIVINYLBENZENE-THIOGLYCOLIC
ACID TELOMER, ESTER WITH 2-HYDROXYETHYL METHACRYLATE/CN
E8        1      TETRADECYL METHACRYLATE-THIOETHANOL TELOMER ESTER WITH 2-CAR
BOXYETHYL ACRYLATE/CN
E9        1      TETRADECYL METHACRYLATE-THIOETHANOL TELOMER, ESTER WITH 4-CA
RBOXYSTYRENE/CN
E10       1      TETRADECYL METHACRYLATE-VINYL ACETATE COPOLYMER/CN
E11       1      TETRADECYL METHANESULFONATE/CN
E12       1      TETRADECYL MYRISTATE/CN

=> s e3
L7        1 "TETRADECYL METHACRYLATE"/CN

=> e vinylmethylether/cn
E1        1      VINYLMETHYLENECYCLOPENTANE/CN
E2        1      VINYLMETHYLENETRIPHENYLPHOSPHORANE/CN
E3        0 --> VINYLMETHYLETER/CN
E4        1      VINYLMETHYLMERCURY/CN
E5        1      VINYLMETHYLSILA-14-CROWN-5/CN
E6        1      VINYLMETHYLSILA-17-CROWN-6/CN
E7        1      VINYLMOLYBDENUM HYDRIDE/CN
E8        1      VINYLNAPHTHALENE/CN
E9        1      VINYLNAPHTHALENE POLYMER/CN
E10       1      VINYLNAPHTHALENE-ISOPRENE BLOCK COPOLYMER/CN
E11       1      VINYLNIOBIUM HYDRIDE/CN
E12       1      VINYLNITRENE/CN

=> e vinyl methyl ether/cn
E1        1      VINYL METHACRYLATE-VINYL CHLORIDE COPOLYMER/CN
E2        1      VINYL METHOXYACETATE/CN
E3        1 --> VINYL METHYL ETHER/CN
E4        1      VINYL METHYL ETHER HOMOPOLYMER/CN
E5        1      VINYL METHYL ETHER POLYMER/CN
E6        1      VINYL METHYL ETHER RADICAL CATION/CN
E7        1      VINYL METHYL ETHER-2-ETHYL-2-OXAZOLINE BLOCK COPOLYMER/CN
E8        1      VINYL METHYL ETHER-MALEIC ACID COPOLYMER/CN
E9        1      VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER/CN
E10       1      VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER BUTYL ESTER/CN
E11       1      VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER ETHYL ESTER/CN
E12       1      VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER ISOPROPYL ESTE
R/CN

=> s e3
L8        1 "VINYL METHYL ETHER"/CN

=> e vinyl ethyl ether/cn
E1        1      VINYL ETHOXYMETHYL SELENIDE/CN

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```

E2      1      VINYL ETHOXYMETHYL SULFIDE/CN
E3      1 --> VINYL ETHYL ETHER/CN
E4      1      VINYL ETHYL ETHER HOMOPOLYMER/CN
E5      1      VINYL ETHYL ETHER POLYMER/CN
E6      1      VINYL ETHYL KETONE/CN
E7      1      VINYL ETHYL MALONATE/CN
E8      1      VINYL ETHYL MALONATE-VINYL ETHYL MESOXALATE P-NITROPHENYLHYD
          RAZONE COPOLYMER/CN
E9      1      VINYL ETHYL SULFIDE/CN
E10     1      VINYL ETHYL SULFONE/CN
E11     1      VINYL ETHYLAL-FORMAL POLYMER/CN
E12     1      VINYL ETHYLENE GLYCOL ETHER-ETHYLENE COPOLYMER/CN

```

=> s e3

```
L9      1 "VINYL ETHYL ETHER"/CN
```

=> e vinyl butyl ether/cn

```

E1      1      VINYL BROMOACETATE/CN
E2      1      VINYL BUTANOATE/CN
E3      1 --> VINYL BUTYL ETHER/CN
E4      1      VINYL BUTYL ETHER HOMOPOLYMER/CN
E5      1      VINYL BUTYL ETHER POLYMER/CN
E6      1      VINYL BUTYL ETHER-METHYL METHACRYLATE-POLYETHYLENE GLYCOL ME
          THYL ETHER ACRYLATE GRAFT COPOLYMER/CN
E7      1      VINYL BUTYL ETHER-VINYL ISOBUTYL ETHER COPOLYMER/CN
E8      1      VINYL BUTYL KETONE/CN
E9      1      VINYL BUTYLSULFONATE/CN
E10     1      VINYL BUTYRAL POLYMERS/CN
E11     1      VINYL BUTYRATE/CN
E12     1      VINYL BUTYRATE HOMOPOLYMER/CN

```

=> s e3

```
L10     1 "VINYL BUTYL ETHER"/CN
```

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	49.87	50.08

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=> s ll/crn

FIELD CODES CANNOT BE CHANGED HERE

You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

=> fil ca

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.43

50.51

FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16

FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005

	E ISOPROPYL METHACRYLATE/CN
L1	1 S E3
	E METHYLCHLOROACRYLIC ACID/CN
	E CHLOROMETHYLACRYLIC ACID/CN
	E VINYLFORMAL/CN
	E DODECYL METHACRYLATE/CN
L2	1 S E3
	E OCTADECYL METHACRYLATE/CN
L3	1 S E3
	E OCTYL METHACRYLATE/CN
L4	1 S E3
	E PENTYL METHACRYLATE/CN
L5	1 S E3
	E PROPYL METHACRYLATE/CN

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```
L6          1 S E3
             E TETRADECYL METHACRYLATE/CN
L7          1 S E3
             E VINYL METHYLETHYL ETHER/CN
             E VINYL METHYL ETHER/CN
L8          1 S E3
             E VINYL ETHYL ETHER/CN
L9          1 S E3
             E VINYL BUTYL ETHER/CN
L10         1 S E3
```

FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

```
=> sel l1 crn
NO ANSWERS SELECTED.  THE ANSWER SET WAS CREATED IN FILE 'REGISTRY'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
An answer set can be processed to create terms only
in the same file in which it was created.
```

```
=> fil reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                   ENTRY      SESSION
FULL ESTIMATED COST                0.43      50.94
```

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```
=> sel l1 crn
FIELD CODE OR DATA NOT PRESENT IN ANSWERS SPECIFIED.
The answers processed either do not include the specified field or do
not contain any data that may be selected from the specified field.
```


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```
=> sel l1
E1 THROUGH E6 ASSIGNED
```

```
=> s e1-e6/crn
      0 "ISOPROPYL METHACRYLATE"/CRN
      0 "ISOPROPYL 2-METHYL-2-PROPENOATE"/CRN
      0 "ISOPROPYL 2-METHYLACRYLATE"/CRN
      0 "NSC 32625"/CRN
      0 "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN
315 4655-34-9/CRN
L11   315 ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2-METHYL-2-PROPENOAT
      E"/CRN OR "ISOPROPYL 2-METHYLACRYLATE"/CRN OR "NSC 32625"/CRN
      OR "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN OR 4655-34-9/CRN)
```

```
=> fil ca
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                1.18        52.12
```

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005
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```
=> fil reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                0.43        52.55
```

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7
 DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when

STN Columbus

conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> sel 12

E7 THROUGH E24 ASSIGNED

=> s e7-e24/crn

```

      0 "ACRYESTER L"/CRN
      0 "AGEFLEX FM 246"/CRN
      0 "DODECYL METHACRYLATE"/CRN
      0 "DODECYL 2-METHYL-2-PROPENOATE"/CRN
      0 "EXCEPARL L-MA"/CRN
      0 "GE 410 (METHACRYLATE)"/CRN
      0 "GE 410"/CRN
      0 LAMA/CRN
      0 "LAURYL METHACRYLATE"/CRN
      0 "LIGHT ESTER L"/CRN
      0 "N-DODECYL METHACRYLATE"/CRN
      0 "NSC 5188"/CRN
      0 "ROCRYL 320"/CRN
      0 "SIPOMER LMA"/CRN
      0 "SR 313"/CRN
      0 "1-DODECYL METHACRYLATE"/CRN
6017 142-90-5/CRN
      0 170292-57-6/CRN
L12   6017 ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR "DODECYL METHACRYL
      ATE"/CRN OR "DODECYL 2-METHYL-2-PROPENOATE"/CRN OR "EXCEPARL
      L-MA"/CRN OR "GE 410 (METHACRYLATE)"/CRN OR "GE 410"/CRN OR
      LAMA/CRN OR "LAURYL METHACRYLATE"/CRN OR "LIGHT ESTER L"/CRN OR
      "N-DODECYL METHACRYLATE"/CRN OR "NSC 5188"/CRN OR "ROCRYL 320"/C
      RN OR "SIPOMER LMA"/CRN OR "SR 313"/CRN OR "1-DODECYL METHACRYLA
      TE"/CRN OR 142-90-5/CRN OR 170292-57-6/CRN)
```

=> d cost

COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	0.37	5.70
NETWORK CHARGES	0.06	0.96
SEARCH CHARGES	0.00	46.00
DISPLAY CHARGES	0.32	0.64
	-----	-----
FULL ESTIMATED COST	0.75	53.30

IN FILE 'REGISTRY' AT 10:39:44 ON 12 APR 2005

=> sel 13

STN Columbus

E25 THROUGH E38 ASSIGNED

```
=> s e25-e38/crn
      0 "ACRYESTER S"/CRN
      0 "BLEMME SMA"/CRN
      0 "LIGHT ESTER S"/CRN
      0 "NK ESTER S"/CRN
      0 "OCTADECYL METHACRYLATE"/CRN
      0 "ROCRYL 330"/CRN
      0 "SR 324 (METHACRYLATE)"/CRN
      0 "SR 324"/CRN
      0 "STEARYL METHACRYLATE"/CRN
      0 112-08-3/CRN
      0 167633-23-0/CRN
4230 32360-05-7/CRN
      0 55778-34-2/CRN
      0 59471-20-4/CRN
L13   4230 ("ACRYESTER S"/CRN OR "BLEMME SMA"/CRN OR "LIGHT ESTER S"/CRN
        OR "NK ESTER S"/CRN OR "OCTADECYL METHACRYLATE"/CRN OR "ROCRYL
        330"/CRN OR "SR 324 (METHACRYLATE)"/CRN OR "SR 324"/CRN OR "STEA
        RYL METHACRYLATE"/CRN OR 112-08-3/CRN OR 167633-23-0/CRN OR
        32360-05-7/CRN OR 55778-34-2/CRN OR 59471-20-4/CRN)
```

```
=> sel 14
E39 THROUGH E42 ASSIGNED
```

```
=> s e39-e42/crn
      0 "ENT 8767"/CRN
      0 "N-OCTYL METHACRYLATE"/CRN
      0 "OCTYL METHACRYLATE"/CRN
519 2157-01-9/CRN
L14   519 ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN OR "OCTYL METHACRY
        LATE"/CRN OR 2157-01-9/CRN)
```

```
=> sel 15
E43 THROUGH E48 ASSIGNED
```

```
=> s e43-e48/crn
      0 "AMYL METHACRYLATE"/CRN
      0 "N-AMYL METHACRYLATE"/CRN
      0 "NSC 20963"/CRN
      0 "PENTYL METHACRYLATE"/CRN
      0 "PENTYL 2-METHYL-2-PROPENOATE"/CRN
103 2849-98-1/CRN
L15   103 ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYLATE"/CRN OR "NSC
        20963"/CRN OR "PENTYL METHACRYLATE"/CRN OR "PENTYL 2-METHYL-2-PR
        OPENOATE"/CRN OR 2849-98-1/CRN)
```

```
=> sel 16
E49 THROUGH E55 ASSIGNED
```

```
=> s e49-e55/crn
      0 "N-PROPYL METHACRYLATE"/CRN
      0 "NSC 32624"/CRN
      0 "PROPYL METHACRYLATE"/CRN
      0 "PROPYL 2-METHYL-2-PROPENOATE"/CRN
      0 "PROPYL 2-METHYLACRYLATE"/CRN
660 2210-28-8/CRN
      0 30110-61-3/CRN
L16   660 ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/CRN OR "PROPYL METHA
        CRYLATE"/CRN OR "PROPYL 2-METHYL-2-PROPENOATE"/CRN OR "PROPYL
        2-METHYLACRYLATE"/CRN OR 2210-28-8/CRN OR 30110-61-3/CRN)
```

STN Columbus

```
=> sel 17
E56 THROUGH E59 ASSIGNED

=> s e56-e59/crn
      0 "MYRISTYL METHACRYLATE"/CRN
      0 "TETRADECYL METHACRYLATE"/CRN
      0 "1-TETRADECANOL, METHACRYLATE"/CRN
474 2549-53-3/CRN
L17   474 ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL METHACRYLATE"/CRN
      OR "1-TETRADECANOL, METHACRYLATE"/CRN OR 2549-53-3/CRN)

=> sel 18
E60 THROUGH E65 ASSIGNED

=> s e60-e65/crn
      0 METHOXYETHENE/CRN
      0 METHOXYETHYLENE/CRN
      0 "METHYL VINYL ETHER"/CRN
      0 "VINYL METHYL ETHER"/CRN
      0 1-METHOXYETHYLENE/CRN
890 107-25-5/CRN
L18   890 (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR "METHYL VINYL ETHER"
      "/CRN OR "VINYL METHYL ETHER"/CRN OR 1-METHOXYETHYLENE/CRN OR
      107-25-5/CRN)

=> sel 19
E66 THROUGH E76 ASSIGNED

=> s e66-e76/crn
      0 ETHOXYETHENE/CRN
      0 ETHOXYETHYLENE/CRN
      0 "ETHYL VINYL ETHER"/CRN
      0 ETHYLOXYETHENE/CRN
      0 EVE/CRN
      0 "NSC 8405"/CRN
      0 VINAMAR/CRN
      0 "VINYL ETHYL ETHER"/CRN
      0 1-ETHOXYETHENE/CRN
      0 1-ETHOXYETHYLENE/CRN
2491 109-92-2/CRN
L19   2491 (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "ETHYL VINYL ETHER"/C
      RN OR ETHYLOXYETHENE/CRN OR EVE/CRN OR "NSC 8405"/CRN OR VINAMAR
      /CRN OR "VINYL ETHYL ETHER"/CRN OR 1-ETHOXYETHENE/CRN OR 1-ETHOX
      YETHYLENE/CRN OR 109-92-2/CRN)

=> sel 110
E77 THROUGH E88 ASSIGNED

=> s e77-e88/crn
      0 BUTOXYETHENE/CRN
      0 BUTOXYETHYLENE/CRN
      0 "BUTYL VINYL ETHER"/CRN
      0 BVE/CRN
      0 "N-BUTYL VINYL ETHER"/CRN
      0 "NSC 8264"/CRN
      0 "VINYL BUTYL ETHER"/CRN
      0 "VINYL N-BUTYL ETHER"/CRN
      0 "1-(ETHENYLOXY) BUTANE"/CRN
      0 "1-(VINILOXY) BUTANE"/CRN
      0 1-BUTOXYETHENE/CRN
848 111-34-2/CRN
```

STN Columbus

L20 848 (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "BUTYL VINYL ETHER"/CRN OR BVE/CRN OR "N-BUTYL VINYL ETHER"/CRN OR "NSC 8264"/CRN OR "VINYL BUTYL ETHER"/CRN OR "VINYL N-BUTYL ETHER"/CRN OR "1-(ETHYNYLOXY)BUTANE"/CRN OR "1-(VINYLOXY)BUTANE"/CRN OR 1-BUTOXYETHENE/CRN OR 111-34-2/CRN)

=> fil stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.03

57.58

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Apr 8, 2005 (20050408/UP).

=> s 80-62-6/crn or 97-63-2/crn or 111 or 88-12-0/crn or 1484-13-5/crn or 75-10-4/crn or 107-13-1/crn
'CRN' IS NOT A VALID FIELD CODE

0 80-62-6/CRN

0 97-63-2/CRN

0 "ISOPROPYL METHACRYLATE"/CRN

0 "ISOPROPYL 2-METHYL-2-PROPENOATE"/CRN

0 "ISOPROPYL 2-METHYLACRYLATE"/CRN

0 "NSC 32625"/CRN

0 "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN

0 4655-34-9/CRN

0 88-12-0/CRN

0 1484-13-5/CRN

0 75-10-4/CRN

0 107-13-1/CRN

0 116-15-4/CRN

L21 0 80-62-6/CRN OR 97-63-2/CRN OR 111 OR 88-12-0/CRN OR 1484-13-5/CRN
N OR 75-10-4/CRN OR 107-13-1/CRN OR 116-15-4/CRN

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.18

57.76

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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *

STN Columbus

* effective March 20, 2005. A new display format, IDERL, is now *
 * available and contains the CA role and document type information. *
 * *

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> s 80-62-6/crn or 97-63-2/crn or l11 or 88-12-0/crn or 1484-13-5/crn or 75-10-4/crn or 107-13-1/crn
    69117 80-62-6/CRN
    5270 97-63-2/CRN
    8123 88-12-0/CRN
    824 1484-13-5/CRN
    0 75-10-4/CRN
    18187 107-13-1/CRN
    1796 116-15-4/CRN
L22 97008 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5/CRN
    N OR 75-10-4/CRN OR 107-13-1/CRN OR 116-15-4/CRN
```

```
=> fil stnguide
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.43      58.19
```

FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 8, 2005 (20050408/UP).

```
=> fil reg; s 141-32-2/crn or 97-88-1/crn or l12 or 106-91-2/crn or l13 or l14 or l15 or l16 or l17
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.12      58.31
```

FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7
 DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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 *
 * The CA roles and document type information have been removed from *
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 *

STN Columbus

* available and contains the CA role and document type information. *
 *

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

43257 141-32-2/CRN
 19564 97-88-1/CRN
 16857 106-91-2/CRN
 13705 108-05-4/CRN
 L23 92191 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
 L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR 108-05-4/CRN

=> s 79-41-4/crn or 79-10-7/crn or 140-10-3/crn or 24615-84-7/crn
 43206 79-41-4/CRN
 55965 79-10-7/CRN
 86 140-10-3/CRN
 721 24615-84-7/CRN
 L24 94944 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

=> fil stnguide		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.86	59.17

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 8, 2005 (20050408/UP).

=> fil ca; methylchloroacrylic acid		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.06	59.23

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
 FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

STN Columbus

This file contains CAS Registry Numbers for easy and accurate substance identification.

METHYLCHLOROACRYLIC IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

```
=> s methylchloroacrylic acid
      0 METHYLCHLOROACRYLIC
      3913380 ACID
L25      0 METHYLCHLOROACRYLIC ACID
      (METHYLCHLOROACRYLIC(W)ACID)
```

```
=> fil stnguide
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          4.03      63.26
```

FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 8, 2005 (20050408/UP).

```
=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          0.06      63.32
```

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,  *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

STN Columbus

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005

```

      E ISOPROPYL METHACRYLATE/CN
L1      1 S E3
      E METHYLCHLOROACRYLIC ACID/CN
      E CHLOROMETHYLACRYLIC ACID/CN
      E VINYLFORMAL/CN
      E DODECYL METHACRYLATE/CN
L2      1 S E3
      E OCTADECYL METHACRYLATE/CN
L3      1 S E3
      E OCTYL METHACRYLATE/CN
L4      1 S E3
      E PENTYL METHACRYLATE/CN
L5      1 S E3
      E PROPYL METHACRYLATE/CN
L6      1 S E3
      E TETRADECYL METHACRYLATE/CN
L7      1 S E3
      E VINYLMETHYLETHER/CN
      E VINYL METHYL ETHER/CN
L8      1 S E3
      E VINYL ETHYL ETHER/CN
L9      1 S E3
      E VINYL BUTYL ETHER/CN
L10     1 S E3

```

FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005

```

      SEL L1
L11     315 S E1-E6/CRN

```

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005

```

      SEL L2
L12     6017 S E7-E24/CRN
      SEL L3
L13     4230 S E25-E38/CRN
      SEL L4
L14     519 S E39-E42/CRN
      SEL L5
L15     103 S E43-E48/CRN
      SEL L6
L16     660 S E49-E55/CRN
      SEL L7
L17     474 S E56-E59/CRN
      SEL L8
L18     890 S E60-E65/CRN
      SEL L9
L19     2491 S E66-E76/CRN

```

STN Columbus

```

SEL L10
L20      848 S E77-E88/CRN

FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21      0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22      97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23      92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24      94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25      0 S METHYLCHLOROACRYLIC ACID

FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005

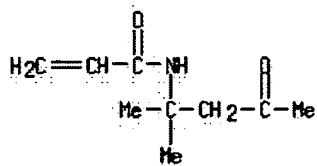
=> s l24 and l22 and l23 and pms/ci
      1060071 PMS/CI
L26      17116 L24 AND L22 AND L23 AND PMS/CI

=> d scan

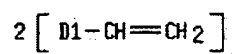
L26 17116 ANSWERS  REGISTRY  COPYRIGHT 2005 ACS on STN
IN  2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
    2-propenoate, diethenylbenzene, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide,
    ethenylbenzene, 2-ethylhexyl 2-propenoate, oxirane, oxiranylmethyl
    2-methyl-2-propenoate and 2-propenoic acid, graft (9CI)
MF  (C11 H20 O2 . C10 H10 . C9 H15 N O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C5
    H8 O2 . C3 H4 O2 . C2 H4 O)x
CI  PMS

```

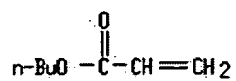
CM 1



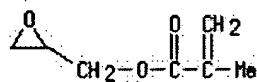
CM 2



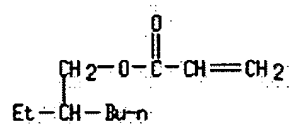
CM 3



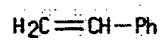
CM 4



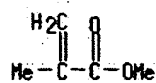
CM 5



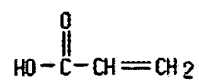
CM 6



CM 7



CM 8



CM 9



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

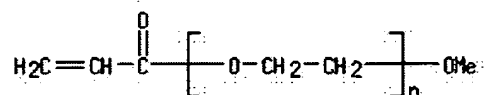
L26 17116 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), graft (9CI)

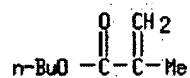
MF (C8 H14 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)_n C4 H6 O2)_x

CI PMS

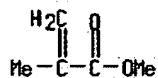
CM 1



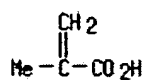
CM 2



CM 3



CM 4



STN Columbus

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005

	E ISOPROPYL METHACRYLATE/CN
L1	1 S E3
	E METHYLCHLOROACRYLIC ACID/CN
	E CHLOROMETHYLACRYLIC ACID/CN
	E VINYLFORMAL/CN
	E DODECYL METHACRYLATE/CN
L2	1 S E3
	E OCTADECYL METHACRYLATE/CN
L3	1 S E3
	E OCTYL METHACRYLATE/CN
L4	1 S E3
	E PENTYL METHACRYLATE/CN
L5	1 S E3
	E PROPYL METHACRYLATE/CN
L6	1 S E3
	E TETRADECYL METHACRYLATE/CN
L7	1 S E3
	E VINYLMETHYLETHER/CN
	E VINYL METHYL ETHER/CN
L8	1 S E3
	E VINYL ETHYL ETHER/CN
L9	1 S E3
	E VINYL BUTYL ETHER/CN
L10	1 S E3

FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005

	SEL L1
L11	315 S E1-E6/CRN

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005

	SEL L2
L12	6017 S E7-E24/CRN
	SEL L3
L13	4230 S E25-E38/CRN
	SEL L4
L14	519 S E39-E42/CRN
	SEL L5
L15	103 S E43-E48/CRN
	SEL L6
L16	660 S E49-E55/CRN
	SEL L7
L17	474 S E56-E59/CRN
	SEL L8
L18	890 S E60-E65/CRN
	SEL L9
L19	2491 S E66-E76/CRN
	SEL L10
L20	848 S E77-E88/CRN

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FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21 0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22 97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23 92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24 94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25 0 S METHYLCHLOROACRYLIC ACID

FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26 17116 S L24 AND L22 AND L23 AND PMS/CI

```
=> fil ca; s l26
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                5.46        68.78
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FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L27 14247 L26

=> s l27 and toner
29950 TONER

L28 302 L27 AND TONER

=> s l28 and electrophotog?
63903 ELECTROPHOTOG?

L29 272 L28 AND ELECTROPHOTOG?

=> fil reg

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.46	73.24

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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7
 DICTIONARY FILE UPDATES: 11 APR 2005 HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> save l22 a658811a/q
 QUERY L22 HAS BEEN SAVED AS 'A658811A/Q'

=> save l23 a658811b/q
 QUERY L23 HAS BEEN SAVED AS 'A658811B/Q'

=> save l24 a658811c/q
 QUERY L24 HAS BEEN SAVED AS 'A658811C/Q'

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.29	74.53

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d scan

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-087
NCL 430109000
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Resin composition for **electrophotographic toner**
ST **electrophotog toner** vinyl copolymer polyester urethane
IT **Electrophotographic toners**
(contg. vinyl copolymers and thermoplastic polyester urethanes)
IT Vinyl compounds, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(copolymers; **electrophotog.** toners contg. thermoplastic polyester urethanes and)
IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog.** toners contg. thermoplastic polyester urethanes, vinyl copolymers and)
IT Urethane rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyester-; **electrophotog.** toners contg. vinyl copolymers and)
IT Polyurethanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyester-; **electrophotog.** toners contg. vinyl copolymers and thermoplastic)
IT 79-41-4DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 80-62-6DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 97-88-1DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 100-42-5DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 103-11-7DP, polymers with (meth)acrylates and polyester-urethane rubber, graft
219790-31-5P 219790-40-6P 219790-54-2P 219790-57-5P
219790-75-7P 219791-49-8P 219791-50-1P 219791-70-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog. toner** resin compn. contg. vinyl copolymers and thermoplastic polyester urethanes)
IT 9010-79-1, Viscol 550P 84179-66-8
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog.** toners contg. thermoplastic polyester urethanes, vinyl copolymers and)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-13
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Electrostatographic liquid developers with improved antioffset properties

STN Columbus

ST electrostatog liq developer viscosity silicone; elasticity electrostatog
liq developer; surface tension **electrophotog** liq developer

IT Siloxanes and Silicones, uses
RL: USES (Uses)
(**electrophotog**. liq. developers contg., KF 96)

IT Carbon black, uses
RL: USES (Uses)
(electrostatog. liq. developers contg. silicone and, MA 60)

IT Alkanes, uses
RL: USES (Uses)
(C9-12-iso-, electrostatog. liq. developers contg., with silicones)

IT Polyesters, uses
RL: USES (Uses)
(amino-contg., electrostatog. liq. developers contg., with silicones)

IT **Electrophotographic** developers
(liq., contg. silicone solvents of controlled viscosity and elasticity)

IT 9002-88-4, Polyethylene 9003-20-7, Poly(vinyl acetate) 24937-78-8,
Evaflex 210 **25068-63-7** 62611-26-1, Epolene E 10 91316-55-1,
OA WAX **121462-57-5**
RL: USES (Uses)
(electrostatog. liq. developers contg., with silicones)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN

IC G03G009-08; G03G009-10; G03G009-14; G03G013-08; G03G013-09; G03G013-22;
C08L023-00; C08L025-06; C08L033-08; C08L051-06

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)

TI Developer compositions

ST pressure fixing magnetic developer **electrophotog**; electrog electrostatic
recording developer

IT Electrography
(developers for, pressure-fixing type)

IT Recording materials
(electrostatic, pressure-fixing type developer for)

IT Rubber, butadiene-styrene, uses and miscellaneous
RL: USES (Uses)
(hydrogenated, triblock, pressure-fixing type developer for
electrostatic latent images contg.)

IT Carbon black, uses and miscellaneous
Polyesters, uses and miscellaneous
RL: USES (Uses)
(pressure-fixing type developers for electrostatic latent images
contg.)

IT Photography, electro-, developers
(toners, pressure-fixing type)

IT 1309-38-2, uses and miscellaneous 9003-53-6 24937-78-8 25119-62-4
50645-48-2, uses and miscellaneous **56793-67-0** 70777-48-9
80450-51-7
RL: USES (Uses)
(pressure-fixing type developer for electrostatic latent images contg.)

IT 9003-55-8
RL: USES (Uses)
(rubber, butadiene-styrene; hydrogenated, triblock, pressure-fixing
type developer for electrostatic latent images contg.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN

IC ICM G03G009-087
ICS G03G009-09; G03G009-08

STN Columbus

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38

TI Resin composition of **electrophotographic toner** and dry **toner** comprising it

ST **electrophotog dry toner polyester**; polyolefin vinyl graft copolymer **toner resin**; wax **electrophotog dry toner compn**

IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Sazol wax; **electrophotog. dry toner resin compn.**
contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT **Electrophotographic toners**
(**electrophotog. dry toner resin compn. contg.**
polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT Carnauba wax
Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog. dry toner resin compn. contg.**
polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT Phenolic resins, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novolak, ethylene oxide adduct, polyesters; **electrophotog. dry toner resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax**)

IT 110-17-8DP, Fumaric acid, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, polyesters 37353-75-6DP, Bisphenol A-propylene oxide adduct (1:2), polyesters 79293-17-7P 96360-62-2P 99546-37-9P 168638-93-5P **260786-90-1P** 359011-20-4P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog. dry toner resin compn. contg.**
polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT 9010-79-1, Viscol 550P
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog. dry toner resin compn. contg.**
polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN

IC ICM G03G009-087

ICS C08L101-08

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

TI Electrostatographic developer **toner** with excellent fixability and anti-offset property

ST electrostatog developer **toner**; metal salt polymer electrostatog developer

IT **Electrophotographic developers**
(two-component, toners, ionomer resins)

IT 1305-62-0DP, Calcium hydroxide, reaction product with n-Bu acrylate-Me methacrylate-methacrylic acid-styrene copolymer **25987-66-0DP**, Butyl acrylate-methyl methacrylate-methacrylic acid-styrene copolymer, reaction product with aluminum chelate

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrostatog. developer **toner** with excellent fixability and anti-offset property)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

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L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
 IC ICM G03G009-08
 CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 TI Electrostatographic heat-fixable microcapsule toners
 ST electrostatog heat fixing toner microcapsule
 IT Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous Polyesters, uses and miscellaneous
 RL: USES (Uses)
 (nonlinear, binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
 IT Electrography
 (developers, toners, microencapsulated, heat-fixable, core particles contg. nonlinear polyester and wax for)
 IT Fatty acids, esters
 RL: USES (Uses)
 (montan-wax, esters, with ethylene glycol, binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
 IT Plastics
 RL: USES (Uses)
 (thermo-, electrostatog. heat-fixable microcapsule toners with shell materials from)
 IT **Electrophotographic** developers
 (toners, microencapsulated, heat-fixable, core particles contg. nonlinear polyester and wax for)
 IT 83123-11-9 111287-25-3
 RL: USES (Uses)
 (binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
 IT 27306-39-4, Acrylic acid butyl acrylatemethyl methacrylate-styrene copolymer
 RL: USES (Uses)
 (electrostatog. heat-fixable microcapsule toners with shell materials from thermoplastic)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005

E ISOPROPYL METHACRYLATE/CN
 L1 1 S E3
 E METHYLCHLOROACRYLIC ACID/CN
 E CHLOROMETHYLACRYLIC ACID/CN
 E VINYLFORMAL/CN
 E DODECYL METHACRYLATE/CN
 L2 1 S E3
 E OCTADECYL METHACRYLATE/CN
 L3 1 S E3
 E OCTYL METHACRYLATE/CN
 L4 1 S E3
 E PENTYL METHACRYLATE/CN
 L5 1 S E3
 E PROPYL METHACRYLATE/CN
 L6 1 S E3
 E TETRADECYL METHACRYLATE/CN
 L7 1 S E3
 E VINYLMETHYLETHYR/CN
 E VINYL METHYL ETHER/CN
 L8 1 S E3

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          E VINYL ETHYL ETHER/CN
L9        1 S E3
          E VINYL BUTYL ETHER/CN
L10       1 S E3

FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005
          SEL L1
L11       315 S E1-E6/CRN

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
          SEL L2
L12       6017 S E7-E24/CRN
          SEL L3
L13       4230 S E25-E38/CRN
          SEL L4
L14       519 S E39-E42/CRN
          SEL L5
L15       103 S E43-E48/CRN
          SEL L6
L16       660 S E49-E55/CRN
          SEL L7
L17       474 S E56-E59/CRN
          SEL L8
L18       890 S E60-E65/CRN
          SEL L9
L19       2491 S E66-E76/CRN
          SEL L10
L20       848 S E77-E88/CRN

FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21       0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22       97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23       92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24       94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25       0 S METHYLCHLOROACRYLIC ACID

FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26       17116 S L24 AND L22 AND L23 AND PMS/CI

FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
L27       14247 S L26
L28       302 S L27 AND TONER
L29       272 S L28 AND ELECTROPHOTOG?

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FILE 'REGISTRY' ENTERED AT 10:49:33 ON 12 APR 2005

SAVE L22 A658811A/Q

SAVE L23 A658811B/Q

SAVE L24 A658811C/Q

FILE 'CA' ENTERED AT 10:51:17 ON 12 APR 2005

=> s l27 (p) (binder or resin) and toner

165256 BINDER

541443 RESIN

2200 L27 (P) (BINDER OR RESIN)

29950 TONER

L30 80 L27 (P) (BINDER OR RESIN) AND TONER

=> d fbib kwic 1-10

L30 ANSWER 1 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:322523 CA

TI A **toner** for electrostatic latent image development with binder resin build from hydropholic monomer and monomers with high- and low glass transition temperatures

IN Matsumura, Yasuo; Yanagida, Kazuhiko; Serizawa, Manabu; Yaguchi, Hidekazu; Kubo, Tsutomu; Seitoku, Shigeru

PA Fuji Xerox Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 16 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004191662	A1	20040930	US 2003-658811	20030910
				JP 2003-79277	A 20030324
	JP 2004287114	A2	20041014	JP 2003-79277	20030324
	EP 1471393	A2	20041027	EP 2003-256088	20030927
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				JP 2003-79277	A 20030324

TI A **toner** for electrostatic latent image development with binder resin build from hydropholic monomer and monomers with high- and low glass transition temperatures

AB A **toner** for electrostatic latent image development is described that does not emit odor or volatile compds., has excellent fixing properties such as resistance to hot offsetting and surface glossiness of a fixed image, excellent develop,ing and image transfer properties and provides high quality durable color images having excellent light resistance. The **toner** major component is a binder copolymer comprised of a high Tg monomer (glass transition temp. $\geq 50^{\circ}$ C), a low Tg monomer (glass transition temp. $\leq 50^{\circ}$ C), and a hydrophilic monomer.

ST electrostatic latent image **toner** binder copolymer glass transition temp; electrophotog developer **toner** binder copolymer glass transition temp

IT Surfactants

(anionic; prepn. of binder resin dispersion contg. hydrophilic monomer and monomers with high- and low glass transition temps. **toner** for electrostatic **toner**)

IT Ferrites

RL: TEM (Technical or engineered material use); USES (Uses)

(carrier; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT Glass transition temperature

STN Columbus

- Particle size
(prepn. of binder resin dispersion contg. hydrophilic monomer and monomers with high- and low glass transition temps. **toner** for electrostatic **toner**)
- IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(releasing agent; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT Electrographic toners
Electrophotographic toners
(**toner** for electrostatic latent image development with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 11067-82-6, Neogen R
RL: TEM (Technical or engineered material use); USES (Uses)
(Neogen R, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 980-26-7, Pigment Red 122
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment Red 122, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 5580-57-4, Pigment Yellow 93
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment Yellow 93, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 147-14-8, Pigment blue 15:3
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment blue 15:3, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer 765949-82-4P, Butyl acrylate-carboxymethyl acrylate-methyl methacrylate copolymer 765949-83-5P, Acrylic acid-Butyl acrylate-isopropyl methacrylate copolymer 765949-84-6P, Butyl acrylate-ethyl acrylate-2-carboxyethyl acrylate-glycidyl methacrylate copolymer 765949-85-7P, Butyl acrylate-carboxymethyl acrylate-styrene copolymer
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder** dispersion; **toner** for electrostatic latent image development with **binder resin** contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 9011-14-7, PMMA
RL: TEM (Technical or engineered material use); USES (Uses)
(carrier coating; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)
- IT 1322-36-7, Dodecanethiol 61332-13-6, Dowfax
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(prepn. of binder resin dispersion contg. hydrophilic monomer and monomers with high- and low glass transition temps. **toner** for electrostatic **toner**)

L30 ANSWER 2 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:131217 CA

STN Columbus

TI Organosol liquid **toner** including amphipathic copolymeric binder having crosslinkable functionality
 IN Herman, Gay L.; Baker, James A.; Qian, Julie Y.
 PA Samsung Electronics Co., Ltd., S. Korea
 SO Eur. Pat. Appl., 35 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1437630	A1	20040714	EP 2004-250005	20040102
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
				US 2003-437881P	P 20030103
				US 2003-691191	A 20031022
	US 2004142270	A1	20040722	US 2003-691191	20031022
				US 2003-437881P	P 20030103
	JP 2004213018	A2	20040729	JP 2004-580	20040105
				US 2003-437881P	P 20030103
				US 2003-691191	A 20031022

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Organosol liquid **toner** including amphipathic copolymeric binder having crosslinkable functionality
 AB The present invention provides liq. **toner** compns. having utility in electrog. applications. Organosol liq. **toner** compns. comprise binder particles dispersed in a nonaq. liq. carrier, wherein the particles are derived from ingredients comprising one or more crosslinkable amphipathic copolymer(s). The organosol is easily combined with addnl. ingredients, such as one or more visual enhancement additives and other desired ingredients, and subjected to mixing processes to form a liq. **toner** compn. Methods of making and electrog. printing liq. toners derived from these organosols are also described. Specifically, the present invention provides a liq. electrog. **toner** compn. comprising: (a) a liq. carrier having a Kauri-Butanol no. less than 30; and (b) a plurality of **toner** particles dispersed in the liq. carrier, wherein the **toner** particles comprise complementary crosslinkable functionalities and at least one amphipathic copolymer comprising one or more S material portions and one or more D material portions, and wherein at least a portion of the crosslinkable functionalities are incorporated into the amphipathic copolymer, and a liq. electrog. **toner** compn. comprising: (a) a liq. carrier having a Kauri-Butanol no. less than 30; and (b) a first plurality of **toner** particles dispersed in the liq. carrier, wherein the first plurality of **toner** particles comprise a first amphipathic copolymer comprising one or more S material portions and one or more D material portions, and wherein the first amphipathic copolymer comprises a first crosslinkable functionality; and (c) a second plurality of **toner** particles dispersed in the liq. carrier, wherein the second plurality of **toner** particles comprise a second amphipathic copolymer comprising one or more S material portions and one or more D material portions. Wherein the second amphipathic copolymer comprises a second crosslinkable functionality, a method of making a liq. electrog. **toner** compn. comprising steps of: (a) providing an organosol comprising a plurality of **toner** particles dispersed in a liq. carrier, wherein the **toner** particles comprise at least one amphipathic copolymer, wherein the amphipathic copolymer comprises one or more S material portions and one or more D material portions, and wherein the amphipathic copolymer comprises crosslinkable functionality; and (b) mixing the organosol with one or more additives under conditions effective to form a dispersion, and a method of electrog. forming an image on a substrate surface comprising steps of: (a) providing a liq. **toner** compn., the liq. **toner** compn. comprising an

- organosol, wherein the organosol comprises a plurality of **toner** particles dispersed in a liq. carrier, wherein the **toner** particles comprise at least one amphipathic copolymer comprising one or more S material portions and one or more D material portions, wherein the amphipathic copolymer comprises crosslinkable functionality; (b) causing an image comprising the **toner** particles to be formed on the substrate surface; and (c) crosslinking the amphipathic copolymer.
- ST electrophotog organosol liq **toner** amphipathic copolymeric binder crosslinkable functionality
- IT Electrophotographic photoconductors (photoreceptors)
Electrophotographic toners
(organosol liq. **toner** including amphipathic copolymeric binder having crosslinkable functionality)
- IT 189310-85-8P 721923-98-4P 721923-99-5P 721924-00-1P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organosol liq. **toner** including amphipathic copolymeric binder having crosslinkable functionality)
- IT 688320-52-7P 721426-97-7P, Behenyl acrylate-Diacetone acrylamide-ethyl methacrylate copolymer **721426-98-8P**, Behenyl acrylate-ethyl methacrylate-methacrylic acid copolymer 721426-99-9P, Behenyl acrylate-ethyl methacrylate-glycidyl methacrylate copolymer 725737-01-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organosol liq. **toner** including amphipathic copolymeric binder having crosslinkable functionality)

L30 ANSWER 3 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 141:31044 CA
TI Colored resin particles containing oil-soluble dyes, and their manufacture
IN Shibai, Yasuhiro; Adachi, Katsumi; Nakano, Shinichi
PA Sharp Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2004161824	A2	20040610	JP 2002-326781	20021111
				JP 2002-326781	20021111

AB The colored resin particles, useful for electrophotog. toners, inks, etc., are manufd. by mixing resin particles with oil-sol. dyes in supercrit. fluid or subcrit. fluid and reducing the pressure of the system, wherein (1) the resins are insol. in the supercrit. fluid or the subcrit. fluid and/or (2) the mixing process and the pressure-reducing process are repeated. Thus, 50 parts jet-milled EP 208 (polyester) particles (av. particle size 7.2 μ m) was mixed with 4 parts C.I. Solvent Red 109 (oil-sol. dye) and 1% fluoropolymer (dispersion stabilizer), the mixt. was stirred under CO₂ at 25 MPa and 80° for 1 h, and the internal pressure of the system was reduced by opening a vacuum valve to give particles showing magenta color. An electrophotog. **toner** contg. the particles gave high-d. images.

ST resin particle oil soluble dye **toner**; electrophotog **toner** dye polyester particle; supercrit fluid mixing dye resin particle

IT **85884-63-5P**, Butyl acrylate-divinylbenzene-methacrylic acid-methyl methacrylate-styrene copolymer
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

STN Columbus

(resin particles colored by mixing with oil-sol. dyes under supercrit. or subcrit. fluid for electrophotog. toners)

L30 ANSWER 4 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 140:305537 CA

TI Oil based ink composition for ink-jet printer and method for production thereof

IN Horie, Seiji; Sakasai, Yutaka

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 20 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004068031	A1	20040408	US 2003-668152	20030924
				JP 2002-282942	A 20020927
	JP 2004115706	A2	20040415	JP 2002-282942	20020927
IT	676604-19-6P	676604-20-9P	676604-21-0P	676604-22-1P	
	676604-24-3P	676604-26-5P	676604-28-7P	676604-30-1P	676604-31-2P
	676604-32-3P				
	RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (binder; oil based ink compn. for ink-jet printer and method for prodn. thereof)				
IT	980-26-7, Toner Magenta E 02	5281-04-9, Lionol Red 6B FG 4213			
	77804-81-0, Toner Yellow HG				
	RL: TEM (Technical or engineered material use); USES (Uses) (pigment; oil based ink compn. for ink-jet printer and method for prodn. thereof)				

L30 ANSWER 5 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 140:305516 CA

TI Oil-based ink composition for inkjet printer and method of forming image using the same

IN Horie, Seiji; Sakasai, Yutaka

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 33 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004063811	A1	20040401	US 2003-668158	20030924
				JP 2002-283416	A 20020927
				JP 2002-286110	A 20020930
	JP 2004143440	A2	20040520	JP 2003-333518	20030925
				JP 2002-283416	A 20020927
				JP 2002-286110	A 20020930
IT	676273-96-4	676273-97-5	676273-98-6	676273-99-7	676274-00-3
	676274-01-4	676274-02-5	676274-03-6	676274-04-7	
	676274-05-8	676274-06-9	676274-07-0	676274-08-1	676274-09-2
	676274-10-5	676274-11-6	676274-12-7		
	RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (binder; oil-based ink compn. for inkjet printer and method of forming image using the same)				
IT	980-26-7, Toner Magenta E02	77804-81-0, Toner Yellow			

STN Columbus

HG

RL: TEM (Technical or engineered material use); USES (Uses)
 (oil-based ink compn. for inkjet printer and method of forming image
 using the same)

L30 ANSWER 6 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 138:115007 CA

TI Electrophotographic liquid developers for heat roll fixing without
 requiring lubricant application, and image formation method using them
 with no hot offset

IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003015367	A2	20030117	JP 2001-203819	20010704
				JP 2001-203819	20010704

ST electrophotog liq developer hot offset prevention; heat roll fixing
toner flushing humic; acrylic halogen binder silicone liq **toner**

IT 25068-63-7, Glycidyl methacrylate-lauryl methacrylate-methacrylic
 acid-methyl methacrylate copolymer 121462-57-5, Hydroxymethyl
 methacrylate-methacrylic acid-methyl methacrylate-stearyl methacrylate
 copolymer

RL: TEM (Technical or engineered material use); USES (Uses)
 (**binder**; electrophotog. liq. developers for heat roll fixing
 without requiring lubricant application with no hot offset)

L30 ANSWER 7 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 138:80621 CA

TI Liquid developers for electrostatically charged images, recording
 materials, and image formation method

IN Tsubushi, Kazuo; Asami, Takeshi; Ishikawa, Aiko

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003005456	A2	20030108	JP 2001-187937	20010621
	US 2003099894	A1	20030529	US 2002-156827	20020530
	US 6692881	B2	20040217		
				JP 2001-163266	A 20010530
				JP 2001-187937	A 20010621
				JP 2001-205347	A 20010705

PATENT FAMILY INFORMATION:

FAN 138:31044

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002356635	A2	20021213	JP 2001-163266	20010530
	US 2003099894	A1	20030529	US 2002-156827	20020530
	US 6692881	B2	20040217		
				JP 2001-163266	A 20010530
				JP 2001-187937	A 20010621
				JP 2001-205347	A 20010705

STN Columbus

FAN 138:115016

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003020423	A2	20030124	JP 2001-205347	20010705
US 2003099894	A1	20030529	US 2002-156827	20020530
US 6692881	B2	20040217		
			JP 2001-163266	A 20010530
			JP 2001-187937	A 20010621
			JP 2001-205347	A 20010705

AB The developers contain toners dispersed in liq. media (e.g., aliph. hydrocarbon, silicone oil, higher fatty acid ester, liq. paraffin, vegetable oil), wherein the toners comprise colorants and resins contg. epoxy-modified resins shown as $R_1CH_2CH(OH)CH_2O[C_6H_4-p-CR_2C_6H_4-p-OCH_2CH(OH)CH_2]_mOC_6H_4-p-CMe_2C_6H_4-p-OCH_2CH(OH)CH_2R_1$ ($m = 1-25$; $R_1 = O_2CnH_{2n+1}$; $R_2 = CnH_{2n+1}$; $n = 1-30$). The claimed recording materials comprise the above **toner** dispersions and may be used for printing inks, ink-jet printing inks, marker inks, or paints. Images are formed by applying the developers on rollers or belts and bonding the developers on electrostatic latent image supports for development. The developers give high-d. high-resoln. images with good fixability in electrophotog.

ST electrophotog liq **toner** epoxy modified resin; printing ink **toner** dispersion epoxy modified resin; jet printing ink **toner** dispersion; marking ink **toner** dispersion epoxy modified resin; paint **toner** dispersion epoxy modified resin

IT Isoalkanes
RL: TEM (Technical or engineered material use); USES (Uses)
(C9-12, dispersant, Isopar H; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Hydrocarbons, uses
Paraffin oils
Polysiloxanes, uses
Safflower oil
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Paints
(epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(jet-printing; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Electrophotographic toners
(liq.; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Fatty acids, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(long-chain, esters, dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(marking; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(printing; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**toner** contg.; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images,

- inks, and paints)
- IT Fats and Glyceridic oils, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (vegetable, dispersant; epoxy-modified resin-contg. **toner**
 dispersions for liq. developers for electrostatically charged images,
 inks, and paints)
- IT 110-27-0, Isopropyl myristate 42557-10-8, KF 96
 RL: TEM (Technical or engineered material use); USES (Uses)
 (dispersant; epoxy-modified resin-contg. **toner** dispersions
 for liq. developers for electrostatically charged images, inks, and
 paints)
- IT 141699-02-7, Glycidyl methacrylate-methacrylic acid-methyl
 methacrylate-stearyl methacrylate copolymer 482288-74-4
 RL: TEM (Technical or engineered material use); USES (Uses)
 (**toner** contg.; epoxy-modified resin-contg.
toner dispersions for liq. developers for electrostatically
 charged images, inks, and paints)

L30 ANSWER 8 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 138:47226 CA

TI Electrophotographic **toner** showing excellent fixability and durability
 and its manufacture by UV photopolymerization

IN Shibai, Yasuhiro; Ariyoshi, Satoru; Akazawa, Yoshiaki

PA Sharp Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002365844	A2	20021218	JP 2001-177366 JP 2001-177366	20010612 20010612
TI	Electrophotographic toner showing excellent fixability and durability and its manufacture by UV photopolymerization				
AB	The title electrophotog. toner includes a photopolymd. binder resin contg. at least carboxyl and epoxy groups or blocked isocyanate and hydroxy groups. The above binder resin contains ≤20 % of THF-insol. components and the THF-insol. components increase to ≥50 % after heating at 150° for 1 min. The toner has a specified particle size distribution and a sphericity of 0.9-1. The small toner with a sharp particle size distribution is easily manufd.				
ST	electrophotog toner binder resin UV photopolymn				
IT	Polyurethanes, preparation RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (block; UV photopolymn. manuf. of electrophotog. toner binder resin showing excellent fixability and durability)				
IT	Electrophotographic toners (electrophotog. toner showing excellent fixability and durability and its manuf. by UV photopolymn.)				
IT	Polymerization (photopolymn.; electrophotog. toner showing excellent fixability and durability and its manuf. by UV photopolymn.)				
IT	478920-70-6P, Acrylic acid-butyl acrylate-glycidyl methacrylate-isobornyl methacrylate-methyl methacrylate copolymer 478920-71-7P, Acrylic acid-butyl acrylate-ethylene glycol dimethacrylate-glycidyl methacrylate-isobornyl methacrylate copolymer 478920-72-8P, Methyl methacrylate-styrene-isobornyl acrylate-butyl acrylate-4-hydroxybutyl acrylate-methylethylketoxime-modified 2-methacryloyloxyethyl isocyanate copolymer				

STN Columbus

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (UV photopolymer. manuf. of electrophotog. **toner binder resin** showing excellent fixability and durability)

L30 ANSWER 9 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 137:302113 CA
 TI Method and apparatus for forming image using organic photoreceptor having resin surface layer and contact-type **toner**-cleaning blade
 IN Sato, Kazuhiko; Uchino, Tetsu
 PA Konica Co., Japan
 SO Jpn. Kokai Tokkyo Koho, 41 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002287591	A2	20021003	JP 2001-85040 JP 2001-85040	20010323 20010323

TI Method and apparatus for forming image using organic photoreceptor having resin surface layer and contact-type **toner**-cleaning blade
 AB The process uses an org. photoreceptor having a resin surface layer thereon and a contact-type **toner**-cleaning blade. The resin surface layer is made up of an org. polymer component, a siloxane condensation product component, and a charge-transporting structure component. The contact-type **toner**-cleaning blade is made up of an elastic blade in contact with the photoreceptor surface and an elastic or plastic material support which supports the blade at one end opposite to the blade tip and at the surface farther away from the photoreceptor so as to satisfy the following relation: $0.1 < b/a \leq 0.9$ (a = free length of cleaning blade; and b = free length of elastic material support). The elastic or plastic material support is fixed on a metal thin plate. The process and the app. employ a **toner**, ≥ 50 no.% of which has rounded corners, and ≥ 65 no.% of which has a shape coeff. 1.2-1.6. The uses of above **toner**-cleaning blade and above **toner** provided excellent **toner** cleaning performances even when an org. photoreceptor is used.
 ST **toner** cleaning blade electrophotog photoreceptor resin surface layer; siloxane polymer charge transporting structure resin surface layer
 IT Electrophotographic apparatus
 (**toner** cleaning blade of)
 IT Elastic materials
 Electrophotographic toners
 (**toner** cleaning blade of electrophotog. app.)
 IT Plastics, uses
 Polyesters, uses
 Polyimides, uses
 Silicone rubber, uses
 Urethane rubber, uses
 RL: DEV (Device component use); USES (Uses)
 (**toner** cleaning blade of electrophotog. app.)
 IT Electrophotographic development
 (**toner** having rounded corners and **toner** cleaning blade of electrophotog. app.)
 IT 84826-27-7P, Butyl acrylate-2-hydroxyethyl methacrylate-KBM 503-Methyl methacrylate copolymer 312908-01-3P, Acrylic acid-butyl acrylate-KBM 503-methyl methacrylate-N-methylolacrylamide-copolymer
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of vinyl polymer for **resin** surface layer formed on

org. electrophotog. photoreceptor)
 IT 25038-59-9, PET, uses
 RL: DEV (Device component use); USES (Uses)
 (toner cleaning blade of electrophotog. app.)

L30 ANSWER 10 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 137:270404 CA

TI Toner made from toner mother particle and external additive having controlled diameters, two-component developer, method of forming image using the same

IN Asahina, Yasuo; Mochizuki, Masaru; Masuda, Minoru; Suzuki, Tomoyoshi; Suzuki, Kosuke; Kajiwara, Tamotsu

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 2002278124	A2	20020927	JP 2001-73078	20010314
				JP 2001-73078	20010314

TI Toner made from toner mother particle and external additive having controlled diameters, two-component developer, method of forming image using the same

AB The toner comprises a toner mother particle made up of a colorant, a binder resin, and a charge-controller and an external additive, wherein (i) the binder resin is polyester and (ii) a charge (A) of the toner mother particle, a charge (B) of the toner mother particle having the external additive thereon, an av. grain diam. (C) of the external additive, and an av. grain diam. (D) of the toner mother particle have the following relations: $-2.3 \leq X \leq 2.3$ and $X = (B/A) \times (\Sigma C/D)$. The charge controller is a salicylic acid metal salt and a salicylic acid deriv. metal salt. A carrier grain used in the 2-component developer is coated by a silicone resin, a fluoro-resin, a fluoro-resin/styrene acrylic resin, an amino resin, and/or an amino resin/styrene acrylic resin. The carrier core is coated with the resin in such a manner that the uneven surface on the carrier core is recognizable. The 2-component developer and the method of forming an image using above toner are also claimed. The toner satisfying above relations provided excellent images even when the toner was recycled.

ST electrophotog two component developer development toner carrier; polyester binder resin toner

IT Polyesters, uses

RL: TEM (Technical or engineered material use); USES (Uses)
 (binder resin in electrophotog. toner)

IT Electrophotographic development
 (image formation using toner made from toner mother particle and external additive having controlled diam.)

IT Electrophotographic toners
 (toner made from toner mother particle and external additive having controlled diam.)

IT Electrophotographic developers
 (two-component developer; toner made from toner mother particle and external additive having controlled diam.)

IT 82213-09-0P, Propoxylated bisphenol a-terephthalic acid-trimellitic acid copolymer 89993-86-2P, Propoxylated bisphenol a-terephthalic acid copolymer 90837-29-9P, 1,2,4-Benzenetricarboxylic acid-ethoxylated bisphenol a-propoxylated bisphenol a-terephthalic acid copolymer 130030-40-9P, Propoxylated bisphenol a-succinic acid-terephthalic acid-trimellitic acid copolymer

STN Columbus

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (binder resin in electrophotog. toner)
 IT 42405-40-3, Bontron E84
 RL: TEM (Technical or engineered material use); USES (Uses)
 (charge controller in electrophotog. toner)
 IT 65588-72-9P, Butyl methacrylate-2-hydroxyethyl
 acrylate-methacrylic acidmethyl methacrylate-styrene copolymer
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (electrophotog. carrier ferrite core coated with resin)

=> d fbib kwic 11-30; fil stnguide

L30 ANSWER 11 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 136:377455 CA
 TI Binder for electrophotographic toner
 IN Hayakawa, Naoki
 PA Sanyo Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002148856	A2	20020522	JP 2001-265087 JP 2000-262588	20010831 A 20000831

TI Binder for electrophotographic toner
 AB The invention relates to a binder for an electrophotog. toner having a lower limit for the fixing temp. The binder comprises styrene copolymers (A and B) having different SP values, wherein the styrene copolymer (A) has peaks in 3,000-30,000 and 100,000-1,000,000, resp., in the GPC mol. wt. distribution and the SP values of (A) and (B) and Tg (glass transition temp.) have the following relation $0.18 \leq |SPa - SPb| \leq 1.00$ and $+5 \leq |Tga - Tgb| \leq +25^\circ$.
 ST styrene copolymer binder electrophotog toner
 IT Electrophotographic toners
 (styrene copolymer binder for electrophotog. toner)
 IT 9003-53-6P, Polystyrene 25085-34-1P, Acrylic acid-styrene copolymer 25586-20-3P, Acrylic acidbutyl acrylate-styrene copolymer 25586-25-8P, Acrylic acid-acrylonitrile-butyl acrylate-styrene copolymer 25767-47-9P, Butyl acrylate-styrene copolymer 25852-38-4P, Acrylonitrilebutyl acrylatemethyl methacrylate-styrene copolymer 27136-15-8P, Butyl acrylatemethyl methacrylate-styrene copolymer 30814-80-3P, Methyl methacrylate-stearyl methacrylate-styrene copolymer 60806-47-5P, Butyl acrylate-divinylbenzene-styrene copolymer
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (styrene copolymer binder for electrophotog. toner)

L30 ANSWER 12 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 136:356430 CA
 TI Erasable pigment with good color stability
 IN Tanaka, Norio; Sugito, Yoshifumi; Noda, Mitsuo
 PA Dainichiseika Color and Chemical Mfg. Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 17 pp.
 CODEN: JKXXAF
 DT Patent

STN Columbus

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002129071	A2	20020509	JP 2000-324345	20001024
				JP 2000-324345	20001024

ST leuco dye erasable pigment electrophotog **toner** color stability; leuco dye erasable pigment water thinned ink color stability

IT 362587-75-5, Ammonium acrylate-butyl acrylate-methyl methacrylate copolymer

RL: MOA (Modifier or additive use); USES (Uses)

(as **binder** for erasable ink with good color stability)

L30 ANSWER 13 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 136:332749 CA

TI Electrostatographic liquid developer and method for image development using same

IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002116583	A2	20020419	JP 2000-308997	20001010
				JP 2000-308997	20001010

AB The title developer contains dispersed **toner** particles made of a colorant and a binder resin in silicone oil of high resistance and low dielec. const., wherein the binder resin is made of: a mixt. of a resin having methylol group and a resin having a functional group reacting with the methylol group; or a resin modified by reacting a methylol group. The developer provides the high image d. and the high resolu. images.

IT 25068-63-7P, Lauryl methacrylate-methyl methacrylate-methacrylic acid-glycidyl methacrylate copolymer 26337-56-4P, Styrene-2-ethylhexyl methacrylate-2-hydroxyethyl methacrylate copolymer 31423-16-2P, Styrene-butyl methacrylate-hydroxyethyl methacrylate copolymer 121462-57-5P, Stearyl methacrylate-methyl methacrylate-methacrylic acid-hydroxymethyl methacrylate copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(**binder resin** electrostatog. toners)

L30 ANSWER 14 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 136:332744 CA

TI Resin composition containing vinyl polyester prepared in amorphous polyester for toners and toners containing same

IN Imamura, Masayuki; Shiozaki, Masaya; Takehara, Hiroaki

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002116578	A2	20020419	JP 2000-310898	20001011
				JP 2000-310898	20001011

AB The title resin compn. contains a vinyl copolymer made of styrene,

STN Columbus

(meth)acrylic acid, and (meth)acrylate copolymer by radical polymn. in an amorphous polyester polymer, wherein the amorphous polyester is 3-24 % grafted with the vinyl polymer. The compn. shows the high transparency and provides toners of the good low fixing characteristics, bending-resistance, offset-resistance, and the storageability. 9/087 . . Binders for **toner** particles [5].

ST resin compn grafted polyester **toner**
 IT 25586-20-3DP, Styrene/butyl acrylate/acrylic acid copolymer, graft polymer with polyester 25586-20-3P, Styrene/butyl acrylate/acrylic acid copolymer **25987-66-0DP**, Styrene-butyl acrylate-methyl methacrylate-methacrylic acid copolymer, graft polymer with polyester **25987-66-0P**, Styrene-butyl acrylate-methyl methacrylate-methacrylic acid copolymer **27306-39-4DP**, Styrene/butyl acrylate/methyl methacrylate/acrylic acid copolymer, graft polymer with polyester **27306-39-4P**, Styrene/butyl acrylate/methyl methacrylate/acrylic acid copolymer
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (resin compn. contg. grafted polyester **resin** for toners)

L30 ANSWER 15 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 135:233857 CA
 TI Resin composition of electrophotographic **toner** and dry **toner** comprising it
 IN Ono, Takashi; Ueno, Masaki
 PA Sanyo Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001249492	A2	20010914	JP 2000-61131	20000306
				JP 2000-61131	20000306

TI Resin composition of electrophotographic **toner** and dry **toner** comprising it
 AB The resin compn. comprises two kinds of polyesters and a graft polymer of a polyolefin resin having 80-170° softening point with a vinyl resin having 10.6-12.6 SP value. The resin compn. is also claimed, comprising the obtained resin compn., and the vinyl resin with 10.6-12.6 SP value and/or a wax with 50-170° softening point. The dry **toner** comprises the obtained resin compn., a colorant, and the above wax. The **toner** prevented white spots and image d. decrease by broadened fixing temp. range and improved fluidization. The **toner** shows good low temp. fixation, antioffset property, and flowability, and images without white dot are obtained.
 ST electrophotog dry **toner** polyester; polyolefin vinyl graft copolymer **toner** resin; wax electrophotog dry **toner** compn
 IT Paraffin waxes, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (Sazol wax; electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
 IT Electrophotographic toners
 (electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
 IT Carnauba wax
 Polyesters, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
 IT Phenolic resins, preparation

STN Columbus

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(novolak, ethylene oxide adduct, polyesters; electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT 110-17-8DP, Fumaric acid, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, polyesters 37353-75-6DP, Bisphenol A-propylene oxide adduct (1:2), polyesters 79293-17-7P 96360-62-2P 99546-37-9P 168638-93-5P **260786-90-1P** 359011-20-4P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl **resin**, and wax)

IT 9010-79-1, Viscol 550P

RL: TEM (Technical or engineered material use); USES (Uses)

(electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

L30 ANSWER 16 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 134:346443 CA

TI Resin composition for electrophotographic **toner** with improved fixability, offset-resistance, storage stability, and image quality

IN Araki, Takashi

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2001125312	A2	20010511	JP 1999-305876	19991027
				JP 1999-305876	19991027

TI Resin composition for electrophotographic **toner** with improved fixability, offset-resistance, storage stability, and image quality

ST electrophotog **toner** resin compn vinyl copolymer amorphous satd polyester

IT Polyesters, properties

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(acrylic, graft; resin compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)

IT Electrophotographic toners

(resin compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)

IT 25767-47-9P, n-Butyl acrylate-styrene copolymer 109216-33-3P, Butyl acrylate-methyl methacrylate-styrene graft copolymer **167467-18-7P**, Acrylic acid-butyl acrylate-methyl methacrylate-styrene graft copolymer 213553-61-8P, Butyl acrylate-2-hydroxyethyl acrylate-methyl methacrylate-styrene graft copolymer

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(**resin** compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)

L30 ANSWER 17 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 134:287819 CA

TI Binder composition containing binder resin of specific molecular weight

STN Columbus

distribution and specific melt viscosity for electrophotographic toner
 IN Suzuki, Toshiaki; Mizumori, Masahide; Fujibayashi, Shinya
 PA Sanyo Chemical Industries Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001092182	A2	20010406	JP 1999-207176	19990722
				JP 1998-223578	A 19980722
				JP 1999-46927	A 19990224
				JP 1999-49521	A 19990226
				JP 1999-50808	A 19990226
				JP 1999-205580	A 19990721

PATENT FAMILY INFORMATION:

FAN 132:129999

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005626	A1	20000203	WO 1999-JP3917	19990722
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1998-223578	A 19980722
				JP 1999-46927	A 19990224
				JP 1999-49521	A 19990226
				JP 1999-50808	A 19990226
				JP 1999-53329	A 19990301
	JP 2000314989	A2	20001114	JP 1999-205067	19990719
				JP 1998-223578	A 19980722
				JP 1999-53329	A 19990301

TI Binder composition containing binder resin of specific molecular weight distribution and specific melt viscosity for electrophotographic toner

ST binder compn resin mol wt melt viscosity electrophotog toner

IT Electrophotographic toners

Melt viscosity

Molecular weight distribution

(binder compn. contg. binder resin of specific mol. wt. distribution and specific melt viscosity for electrophotog. toner)

IT Polyesters, preparation

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(binder compn. contg. binder resin of specific mol. wt. distribution and specific melt viscosity for electrophotog. toner)

IT 9002-88-4P 9003-54-7P, Styrene-acrylonitrile copolymer 25586-20-3P, Styrene-butyl acrylate-acrylic acid copolymer 26299-47-8P, Styrene-acrylonitrile-butyl acrylate copolymer 26568-80-9P, Styrene-butadiene-acrylonitrile-acrylic acid copolymer 26660-38-8P, Acrylonitrile-glycidyl methacrylate copolymer 28806-55-5P, Styrene-acrylonitrile-glycidyl methacrylate-butadiene copolymer 52907-82-1DP, Epikote 1002, ester with benzoic acid, reaction 100829-08-1P, Styrene-Butadiene-Acrylonitrile-2-Hydroxyethyl methacrylate copolymer 100920-92-1P, Styrene-acrylonitrile-2-isopropenyl-2-oxazoline copolymer 178366-14-8P, Styrene-acrylonitrile-m-Isopropenyl- α,α -dimethylbenzyl isocyanate copolymer 256442-08-7P, Styrene-Stearyl methacrylate-Acrylonitrile-acrylic acid copolymer 332347-99-6P 333391-04-1P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(binder compn. contg. binder resin of

specific mol. wt. distribution and specific melt viscosity for

STN Columbus

electrophotog. toner)

IT 1675-54-3

RL: TEM (Technical or engineered material use); USES (Uses)
 (binder compn. contg. binder resin of specific mol. wt. distribution
 and specific melt viscosity for electrophotog. toner)

L30 ANSWER 18 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 134:229690 CA

TI Method for image formation using liquid developer according to
 electrostatographic process

IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko; Kozeki, Akihiro; Kudo,
 Takeo

PA Ricoh Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001066899	A2	20010316	JP 1999-236941	19990824
	US 6447973	B1	20020910	US 2000-644266	20000823
				JP 1999-236941	A 19990824
				JP 1999-283475	A 19991004
				JP 1999-324164	A 19991115
				JP 1999-331437	A 19991122

PATENT FAMILY INFORMATION:

FAN 134:318613

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001109187	A2	20010420	JP 1999-283475	19991004
	US 6447973	B1	20020910	US 2000-644266	20000823
				JP 1999-236941	A 19990824
				JP 1999-283475	A 19991004
				JP 1999-324164	A 19991115
				JP 1999-331437	A 19991122

FAN 134:374024

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001142260	A2	20010525	JP 1999-324164	19991115
	US 6447973	B1	20020910	US 2000-644266	20000823
				JP 1999-236941	A 19990824
				JP 1999-283475	A 19991004
				JP 1999-324164	A 19991115
				JP 1999-331437	A 19991122

FAN 135:12070

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001147548	A2	20010529	JP 1999-331437	19991122
	US 6447973	B1	20020910	US 2000-644266	20000823
				JP 1999-236941	A 19990824
				JP 1999-283475	A 19991004
				JP 1999-324164	A 19991115
				JP 1999-331437	A 19991122

AB The title method uses a liq. developer contg. toner particles mainly
 made of a colorant and a vinyl resin in a carrier soln. of the high elec.
 resistance, wherein wt. av. mol. wt. and the no. av. mol. wt. of the vinyl
 resin is ≥ 4 . The melt index, the acid value, the viscosity, and
 the crosslinking degree of the resin are also controlled. The method
 using the above vinyl resin provides the improve offset resistance while
 maintaining the low fixing temp.

STN Columbus

IT 85884-61-3P, Styrene-butyl acrylate-maleic acid-divinylbenzene copolymer
 85884-62-4P, Styrene-butyl acrylate-acrylic acid-divinylbenzene copolymer
 85884-63-5P, Styrene-methyl methacrylate-butyl
 acrylate-methacrylic acid-divinylbenzene copolymer
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (resin in toner particles)

L30 ANSWER 19 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 134:49156 CA

TI Electrophotographic **toner** resin composition used for reversal
 development and **toner** produced therefrom

IN Shinjo, Takashi; Shiosaki, Masaya; Okudo, Masazumi

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2000338715	A2	20001208	JP 1999-125951	19990506
				JP 1999-75999	A 19990319

TI Electrophotographic **toner** resin composition used for reversal
 development and **toner** produced therefrom

AB The title compn. contains a copolymer of styrenic, (meth)acrylate,
 carboxylic monomers, wherein the copolymer has 20-60 mg·KOH/g acid
 value, $\leq 20 \mu\text{C}$ charge capacity, and $\geq 1 \times 10^{10}$
 $\Omega \cdot \text{cm}$ vol. resistance. The compn. provides the **toner** of the
 excellent balance between fixing performances and developing performances.

ST electrophotog **toner** resin compn

IT Electrophotographic toners

(electrophotog. **toner** resin compn. used for reversal
 development and **toner** produced therefrom)

IT 27306-39-4P, Styrene-butyl acrylate-methyl methacrylate-acrylic
 acid copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)

(resin in electrophotog. **toner** resin
 compn.)

L30 ANSWER 20 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 133:297653 CA

TI Phthalocyanines as dispersing agents for gaining the original clear color
 of phthalocyanine pigments useful in color filter, ink and color **toner**

IN Aoki, Minoru; Masuda, Kiyoshi; Asako, Yoshinobu; Ikeda, Isao; Urashima,
 Nobuaki

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2000281927	A2	20001010	JP 1999-93860	19990331
				JP 1999-93860	19990331

OS MARPAT 133:297653

TI Phthalocyanines as dispersing agents for gaining the original clear color
 of phthalocyanine pigments useful in color filter, ink and color **toner**

STN Columbus

ST phthalocyanine dispersing agent color pigment clearness; ink color filter
toner phthalocyanine dispersing agent; turbidity redn phthalocyanine
dispersing agent color filter; transparency dispersing agent
phthalocyanine color filter

IT Metallophthalocyanines
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agents; phthalocyanines as dispersing agents for gaining
original clear color of phthalocyanine pigments useful in color filter,
ink and color **toner**)

IT Coating materials
(dispersion; phthalocyanines as dispersing agents for gaining original
clear color of phthalocyanine pigments useful in color filter, ink and
color **toner**)

IT Inks
(jet-printing; phthalocyanines as dispersing agents for gaining
original clear color of phthalocyanine pigments useful in color filter,
ink and color **toner**)

IT Dispersing agents
Electrophotographic toners
Optical filters
(phthalocyanines as dispersing agents for gaining original clear color
of phthalocyanine pigments useful in color filter, ink and color
toner)

IT 28262-63-7, Butyl methacrylate-methacrylic acid-methyl
methacrylate copolymer
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or
engineered material use); USES (Uses)
(**binder**; phthalocyanines as dispersing agents for gaining
original clear color of phthalocyanine pigments useful in color filter,
ink and color **toner**)

IT 39001-65-5 152197-58-5 217483-17-5 238074-20-9 238074-22-1
238098-00-5 238098-10-7 301540-20-5 301540-21-6 301546-98-5
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agents; phthalocyanines as dispersing agents for gaining
original clear color of phthalocyanine pigments useful in color filter,
ink and color **toner**)

IT 147-14-8, C.I.Pigment blue 15:6
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment; phthalocyanines as dispersing agents for gaining original
clear color of phthalocyanine pigments useful in color filter, ink and
color **toner**)

L30 ANSWER 21 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 132:214749 CA

TI Electrophotographic **toner** composition and resin composition for it

IN Kato, Norikazu; Ono, Takashi; Ueno, Masaki

PA Sanyo Chemical Industries Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2000075549	A2	20000314	JP 1998-259280	19980827
				JP 1998-259280	19980827

TI Electrophotographic **toner** composition and resin composition for it

AB The resin compn. comprises (A) a polyolefin having softening temp.
80-170°, (B) a vinyl polymer having soly. parameter 10.6-12.6, and
(C) a graft copolymer formed by graft polyimg. B with A. The **toner**
binder compn. comprises a polyester binder and the above-described resin

STN Columbus

compn. The **toner** compn. comprises the resin compn., a polyester binder, and a colorant. The **toner** shows good antioffset property, stable flowability, and gives high d. images without white defect.

ST electrophotog **toner** resin polyolefin; olefin vinyl graft polymer electrophotog **toner**; polyester binder electrophotog **toner**

IT Electrophotographic toners
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT Polyesters, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT Phenolic resins, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novolak, ethoxylated, polyesters; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 9002-88-4, Polyethylene
RL: TEM (Technical or engineered material use); USES (Uses)
(Sanwax LEL 400, Sanwax 171P; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 9003-07-0, Polypropylene
RL: TEM (Technical or engineered material use); USES (Uses)
(Viscol 440P; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 75-21-8DP, Ethylene oxide, reaction products with phenolic resins, polyesters 100-21-ODP, Terephthalic acid, polyesters 110-16-7DP, 2-Butenedioic acid (2Z)-, polyesters, preparation 120-61-6DP, Dimethyl terephthalate, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, Bisphenol A ethylene oxide adduct, polyesters 37353-75-6DP, Bisphenol A propylene oxide adduct, polyesters 126034-89-7P, Bisphenol A ethylene oxide adduct-bisphenol A propylene oxide adduct-terephthalic acid copolymer **260559-28-2P**, Acrylic acid-acrylonitrile-butyl acrylate-ethylene-propylene-styrene graft copolymer **260786-90-1P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 9010-79-1, Viscol 550P 143929-12-8, Viscol 660P 260786-55-8, Acrylonitrile-ethylene-monobutyl maleate-propylene-styrene graft copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

L30 ANSWER 22 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 132:129999 CA

TI **Toner** binder composition and **toner** composition for electrophotography

IN Suzuki, Toshiro; Mizumori, Masahide; Fujibayashi, Shinya

PA Sanyo Chemical Industries Ltd., Japan

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005626	A1	20000203	WO 1999-JP3917	19990722
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

STN Columbus

PT, SE

			JP 1998-223578	A	19980722
			JP 1999-46927	A	19990224
			JP 1999-49521	A	19990226
			JP 1999-50808	A	19990226
			JP 1999-53329	A	19990301
JP 2000314989	A2	20001114	JP 1999-205067		19990719
			JP 1998-223578	A	19980722
			JP 1999-53329	A	19990301

PATENT FAMILY INFORMATION:

FAN 134:287819

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001092182	A2	20010406	JP 1999-207176	19990722
				JP 1998-223578	A 19980722
				JP 1999-46927	A 19990224
				JP 1999-49521	A 19990226
				JP 1999-50808	A 19990226
				JP 1999-205580	A 19990721

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI **Toner** binder composition and **toner** composition for electrophotography

AB A **toner** binder compn. which comprises 5 to 50 % of a styrenic resin (A) having a wt. av. mol. wt. of 50,000 to 2,000,000 and 50 to 95 % of a styrenic resin (B) having a wt. av. mol. wt. of 1,000 to 30,000, and a melt viscosity at 110° (V1) of 100 to 25,000 Pa.s and a melt viscosity at 170° (V2) of 10 to 3,000 Pa.s, and satisfies the formula $1.0 < \log(V1)/\log(V2) \leq 3.0$. The **toner** of the present invention exhibits an excellent balance among fixing properties at a low temp., resistance to hot offset printing and pulverizability, without detriment to resistance to hot storage and image quality.

ST electrophotog **toner** binder compn polystyrene mol wt melt viscosity

IT Epoxy resins, preparation
Polyesters, preparation
RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (in **toner** binder compn. and **toner** compn. for electrophotog.)

IT Melt viscosity
Molecular weight distribution
(of electrophotog. **toner** binder compn. to obtain excellent fixing properties)

IT Electrophotographic toners
(**toner** binder compn. and **toner** compn. for electrophotog.)

IT 9003-54-7P 25586-20-3P 26299-47-8P 26568-80-9P 28806-55-5P
29762-66-1P 52907-82-1P 87667-91-2P 100920-92-1P 178366-14-8P
256442-08-7P
RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (in **toner** binder compn. and **toner** compn. for electrophotog.)

IT 9002-88-4
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (in **toner** binder compn. and **toner** compn. for electrophotog.)

L30 ANSWER 23 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 132:57078 CA

TI Electrophotographic color **toner**, developer and imaging method for OHP

STN Columbus

(overhead projection) sheet
 IN Isobe, Kazuya; Soeda, Kaori; Shirase, Akizo
 PA Konica Co., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11344836	A2	19991214	JP 1998-151303 JP 1998-151303	19980601 19980601
TI	Electrophotographic color toner , developer and imaging method for OHP (overhead projection) sheet				
AB	In the title electrophotog. color toner comprising a vinyl binder resin prep'd. from I (R1-8 = H, halo, C1-10-alkyl, cycloalkyl, aryl; R9, R10 = H, C1-6-alkyl; X = C1-6-alkylene, polymethylene, C2-6-alkylidene, single bond; Y = C1-6-alkylene, polymethylene, C2-10-alkylidene, sulfonyl, sulfide, -O-, single bond; n = 1-5) or II (R11, R12 = H, C1-6-alkyl; R13, R14 = H, C1-10-alkyl, cycloalkyl, aryl; m = 3-20), the toner contains a colorant represented by a general formula III.				
ST	electrophotog color toner developer development OHP colorant vinyl binder				
IT	Electrophotographic developers Electrophotographic development Electrophotographic toners Overhead projection slides (electrophotog. color toner , developer and imaging method for OHP (overhead projection) sheet)				
IT	252763-90-9 RL: TEM (Technical or engineered material use); USES (Uses) (colorant in electrophotog. color toner for OHP sheet)				
IT	208179-78-6 252211-98-6 252735-61-8 252735-62-9 RL: TEM (Technical or engineered material use); USES (Uses) (vinyl binder resin of electrophotog. color toner for OHP sheet)				

L30 ANSWER 24 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 132:28652 CA
 TI Color **toner** for electrostatic image development, developer, and image formation method
 IN Isobe, Kazuya; Soeda, Kaori; Shirase, Akizou
 PA Konica Co., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11344835	A2	19991214	JP 1998-151302 JP 1998-151302	19980601 19980601
TI	Color toner for electrostatic image development, developer, and image formation method				
AB	The toner contains a binder resin prep'd. from CH2:CR9CO(OXO-p-C6H4Y-p-C6H4OX)nO2CCR10:CH2 [R9, R10 = H, C1-6 (cyclo)alkyl; C6H4 may have substituent; X = C1-6 alkylene, polymethylene, C2-6 alkylidene, bond; Y = C1-6 alkylene, polymethylene, C2-10 alkylidene, aralkylidene, SO2, S, O, bond; n = 1-5] and/or CH2:CR11CO2(CR13R14)mO2CCR12:CH2 [R11, R12 = H, C1-6 (cyclo)alkyl; R13, R14 = H, C1-10 (cyclo)alkyl, aryl; m = 3-20] and C.I. Solvent Yellow 93 as a colorant. The toner has good light resistance and is applicable to oilless fixing to provide OHP image with good				

STN Columbus

transparency and hue stability.

ST color **toner** yellow electrostatic image development; vinyl polymer binder
yellow colorant **toner**

IT Color electrophotographic toners
(color **toner** contg. C.I. Solvent Yellow 93 for electrostatic
image development)

IT 252211-98-6P, Bisphenol A bis(2-acryloyloxyethyl) ether-butyl
acrylate-methacrylic acid-methyl methacrylate-styrene copolymer
252211-99-7P, Butyl acrylate-1,6-hexanediol diacrylate-methacrylic
acid-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(binder; color **toner** contg. C.I. Solvent Yellow 93
for electrostatic image development)

IT 4702-90-3, C.I. Solvent Yellow 93
RL: TEM (Technical or engineered material use); USES (Uses)
(color **toner** contg. C.I. Solvent Yellow 93 for electrostatic
image development)

L30 ANSWER 25 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 131:122924 CA

TI Electrophotographic **toner** for color image development

IN Isobe, Kazuya; Shirase, Akizo

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11184148	A2	19990709	JP 1997-354559	19971224
				JP 1997-354559	19971224

TI Electrophotographic **toner** for color image development

AB The electrophotog. **toner** for color image development has a vinyl resin
binder contg. acrylic acid or methacrylic acid and a multi-valent metal
compd., wherein the vinyl resin has crosslinking structure formed by a
carboxylic group of acrylic or methacrylic acid and the metal ion. The
toner shows charging stability over time and the excellent durability.

ST electrophotog **toner** color image development vinyl resin

IT Electrophotographic toners
(electrophotog. **toner** for color image development)

IT 25120-19-8DP, Butyl acrylate-styrene-methacrylic acid-acrylic acid
copolymer, reaction product with zinc oxide 25987-66-0P,
Styrene-butyl acrylate-methacrylic acid-methyl methacrylate copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(vinyl **resin** for electrophotog. **toner**)

L30 ANSWER 26 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 131:25728 CA

TI Electrostatographic developer **toner** using polyvalent metal salt polymer
binder

IN Shimizu, Seiichi; Furukawara, Toshiro

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

STN Columbus

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 11133663	A2	19990521	JP 1997-300298	19971031
				JP 1997-300298	19971031
TI	Electrostatographic developer toner using polyvalent metal salt polymer binder				
AB	In the toner with content of volatile components (b.p. $\leq 150^\circ$) ≤ 200 ppm, ≥ 50 wt.% of a binder polymer is a polyvalent metal salt polymer. The toner shows good antioffset property and high printability.				
ST	electrostatog developer toner polymer binder; polyvalent metal salt polymer electrostatog toner ; acrylic polymer aluminum salt toner binder				
IT	Binders				
	Electrographic toners				
	(electrostatog. developer toner using polyvalent metal salt polymer binder)				
IT	Metal alkoxides				
	RL: RCT (Reactant); RACT (Reactant or reagent)				
	(electrostatog. developer toner using polyvalent metal salt polymer binder)				
IT	Polymerization				
	(soln.; electrostatog. developer toner using polyvalent metal salt polymer binder)				
IT	25987-66-0P				
	RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(electrostatog. developer toner using polyvalent metal salt polymer binder)				
IT	555-31-7, Aluminum isopropoxide				
	RL: RCT (Reactant); RACT (Reactant or reagent)				
	(electrostatog. developer toner using polyvalent metal salt polymer binder)				

L30 ANSWER 27 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 130:146199 CA

TI Electrophotographic **toner** containing polyethylene wax and styrenic binder resin and showing good filming resistance

IN Demizu, Ichiro; Nishihara, Yoikazu; Mikuriya, Yoshihiro

PA Minolta Camera Co., Ltd., Peop. Rep. China

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 11015197	A2	19990122	JP 1997-167024	19970624
				JP 1997-167024	19970624
TI	Electrophotographic toner containing polyethylene wax and styrenic binder resin and showing good filming resistance				
AB	The toner , showing excellent fluidity and chargeability, contains polypropylene wax, polyethylene wax, a colorant, and a styrenic binder resin including 5-30% (based on total monomer wt.) Me methacrylate and showing Mn 2,000-10,000 and polydispersity 20-90.				
ST	electrophotog toner polyethylene wax styrenic binder; antifilming antioffset toner binder styrenic acrylic; styrene methyl methacrylate copolymer toner binder				
IT	Binders				
	Electrophotographic toners				
	(electrophotog. toner contg. polyethylene wax and styrenic binder resin and showing good filming resistance)				

STN Columbus

IT 25213-39-2P, Butyl methacrylate-styrene copolymer **56793-67-0P**, Butyl methacrylate-methacrylic acid-methyl methacrylate-styrene copolymer
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (binder; electrophotog. **toner** contg. polyethylene wax and styrenic **binder resin** and showing good filming resistance)

IT 9002-88-4, Hiwax 100P 9002-88-4D, Polyethylene, oxidized 9003-07-0, Viscol 330P 9003-07-0D, Polypropylene, oxidized 97930-08-0, Viscol TS 200 143929-12-8, Viscol 660P 208266-07-3, Hiwax 4051E
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (electrophotog. **toner** contg. polyethylene wax and styrenic binder resin and showing good filming resistance)

L30 ANSWER 28 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 130:131772 CA
 TI Resin composition for electrophotographic **toner** and **toner** using it
 IN Suzuki, Kiyokazu; Kamiyama, Takashi
 PA Sekisui Chemical Co. Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 8 pp.
 CODEN: JKXXAF

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11024309	A2	19990129	JP 1997-180988	19970707
				JP 1997-180988	19970707

TI Resin composition for electrophotographic **toner** and **toner** using it
 AB The resin compn. is a vinyl copolymer comprising styrene derivs., (meth)acrylic ester derivs., and 0.01-10 wt.% vinyl compds. having polar groups as monomers and has mol. wt. peak at 3×10^3 - 3×10^4 by gel permeation chromatog. and the component with mol. wt. $\leq 100,000$ occupies ≥ 70 wt.% in the mol. wt. distribution. The **toner** using the resin compn. is also claimed. The **toner** shows good antioffset properties and fixability and gives high resolu. full-color images without **toner** filming phenomena.
 ST electrophotog **toner** vinyl copolymer binder; mol wt distribution vinyl copolymer **toner**
 IT Electrophotographic toners
 (electrophotog. **toner** using vinyl copolymer as binder)

IT 25036-16-2P, Butyl acrylate-methacrylic acid-styrene copolymer
 25586-20-3P, Acrylic acid-butyl acrylate-styrene copolymer
25987-66-0P, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer **27306-39-4P**, Acrylic acid-butyl acrylate-methyl methacrylate-styrene copolymer
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (electrophotog. **toner** using vinyl copolymer as **binder**)

L30 ANSWER 29 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:209302 CA
 TI Acrylate-styrene-based polymer composition and electrophotographic **toner** using it
 IN Okudo, Masazumi; Takehara, Hiroaki
 PA Sekisui Chemical Co. Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF

STN Columbus

DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10221882	A2	19980821	JP 1997-22540	19970205
				JP 1997-22540	19970205
TI	Acrylate-styrene-based polymer composition and electrophotographic toner using it				
AB	The polymer compn. mainly contains a graft copolymer obtained by grafting of a substance (B) having m.p. 50-120° to a vinyl copolymer (A) obtained from styrene deriv., (meth)acrylate, and vinyl compd. with acid group and crosslinked via polyfunctional metal compd. The vinyl copolymer (A) contains a low-mol.-wt. polymer component (a) and a high-mol.-wt. polymer component (b), and the component (a) and (b) have a max. value in mol.-wt. distribution in the range 3×10^3 - 5×10^4 and in the range 3×10^5 - 5×10^6 , resp. In the graft copolymer, the grafting ratio of the substance (B) to the component (b) is higher than that of (B) to the component (a). Alternatively, the polymer compn. mainly contains the vinyl copolymer (A), where the vinyl monomer is polymd. in block, contg. the component (a) and (b). The acid value of the component (b) is ≥ 10 KOHmg/g which is higher than that of the component (a). The toner obtained by using the polymer compn. is also claimed. The toner has high fixability in wide temp. range and good balance between antiblocking and antioffset properties.				
ST	acrylate styrene polymer binder electrophotog toner ; metal compd crosslinking binder electrophotog toner ; fixability electrophotog toner acrylate styrene polymer				
IT	Binders Crosslinking agents Electrophotographic toners (styrene-acrylate-based polymer compn. as binder for electrophotog. toner having high fixability)				
IT	142-72-3P, Magnesium acetate 1309-48-4P, Magnesium oxide, preparation 1314-13-2P, Zinc oxide, preparation RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (crosslinking agent; styrene-acrylate-based polymer compn. as binder for electrophotog. toner having high fixability)				
IT	212128-44-4P, Blemmer CP 30-butyl acrylate-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate-styrene graft copolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (magnesium acetate-crosslinked; styrene-acrylate-based polymer compn. as binder for electrophotog. toner having high fixability)				
IT	212128-45-5P, Butyl acrylate-methacrylic acid-stearyl alcohol-styrene graft copolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (magnesium oxide-crosslinked; styrene-acrylate-based polymer compn. as binder for electrophotog. toner having high fixability)				
IT	27306-39-4P, Acrylic acid-butyl acrylate-methyl methacrylate-styrene copolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (styrene-acrylate-based polymer compn. as binder for electrophotog. toner having high fixability)				
IT	212128-43-3P, Acrylic acid-behenyl alcohol-butyl acrylate-methyl methacrylate-styrene graft copolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				

STN Columbus

(zinc oxide-crosslinked; styrene-acrylate-based polymer compn. as
binder for electrophotog. toner having high
fixability)

L30 ANSWER 30 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:154656 CA

TI Resin composition for electrophotographic toners and its manufacture

IN Okudo, Masasumi; Takehara, Kanmei

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10186718	A2	19980714	JP 1996-332161	19961212
				JP 1996-288229	A 19961030

ST resin compn vinyl polymer electrophotog toner

IT 27306-39-4P, Acrylic acidbutyl acrylate-methyl
methacrylate-styrene copolymer 88583-01-1P, Acrylic acidbutyl
acrylate-2-ethylhexyl acrylate-glycidyl methacrylate-styrene copolymer
210969-32-7P, Blemmer CP3-butyl acrylate-methacrylic acid-methyl
methacrylate-styrene copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)

(resin compn. for electrophotog. toners and its manuf.)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	106.13	180.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-14.96	-14.96

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(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

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	E ISOPROPYL METHACRYLATE/CN
L1	1 S E3
	E METHYLCHLOROACRYLIC ACID/CN
	E CHLOROMETHYLACRYLIC ACID/CN
	E VINYLFORMAL/CN
	E DODECYL METHACRYLATE/CN
L2	1 S E3
	E OCTADECYL METHACRYLATE/CN
L3	1 S E3
	E OCTYL METHACRYLATE/CN

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L4 1 S E3
E PENTYL METHACRYLATE/CN
L5 1 S E3
E PROPYL METHACRYLATE/CN
L6 1 S E3
E TETRADECYL METHACRYLATE/CN
L7 1 S E3
E VINYLMETHYLETHYER/CN
E VINYL METHYL ETHER/CN
L8 1 S E3
E VINYL ETHYL ETHER/CN
L9 1 S E3
E VINYL BUTYL ETHER/CN
L10 1 S E3

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FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005

SEL L1
L11 315 S E1-E6/CRN

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005

SEL L2
L12 6017 S E7-E24/CRN
SEL L3
L13 4230 S E25-E38/CRN
SEL L4
L14 519 S E39-E42/CRN
SEL L5
L15 103 S E43-E48/CRN
SEL L6
L16 660 S E49-E55/CRN
SEL L7
L17 474 S E56-E59/CRN
SEL L8
L18 890 S E60-E65/CRN
SEL L9
L19 2491 S E66-E76/CRN
SEL L10
L20 848 S E77-E88/CRN

FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005

L21 0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005

L22 97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

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FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005

L23 92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24 94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005

L25 0 S METHYLCHLOROACRYLIC ACID

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FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26 17116 S L24 AND L22 AND L23 AND PMS/CI

FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
L27 14247 S L26
L28 302 S L27 AND TONER
L29 272 S L28 AND ELECTROPHOTOG?

FILE 'REGISTRY' ENTERED AT 10:49:33 ON 12 APR 2005
SAVE L22 A658811A/Q
SAVE L23 A658811B/Q
SAVE L24 A658811C/Q

FILE 'CA' ENTERED AT 10:51:17 ON 12 APR 2005
L30 80 S L27 (P) (BINDER OR RESIN) AND TONER

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ANSWER SET L30 HAS BEEN SAVED AS 'A658811A1/A'

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	181.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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(ROSPATENT) added to list of core patent offices covered
NEWS 4 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 5 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 6 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 7 MAR 02 GBFULL: New full-text patent database on STN
NEWS 8 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 9 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 10 MAR 22 KOREAPAT now updated monthly; patent information enhanced
NEWS 11 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 12 MAR 22 PATDPASPC - New patent database available
NEWS 13 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 14 APR 04 EPFULL enhanced with additional patent information and new
fields
NEWS 15 APR 04 EMBASE - Database reloaded and enhanced

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AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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=> fil ca; act a658811a1/a

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1 (      315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L2 (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L3 (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMME SMA"/CRN OR "L
L4 (      519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L5 (      103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L6 (      660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L7 (      474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L8 (      890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L9 (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L10 (      848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L11 (      97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L1 OR 88-12-0/C
L12 (      92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L2 OR 106-91-2
L13 (      94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L14 (      17116)SEA FILE=REGISTRY L13 AND L11 AND L12 AND PMS/CI
L15 (      14247)SEA FILE=CA L14
L16      80 SEA FILE=CA L15 (P) (BINDER OR RESIN) AND TONER
```

=> d fbib kwic 31-40; fil stnguide

L16 ANSWER 31 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 129:142567 CA
TI Resin composition for electrophotographic **toner**
IN Suzuki, Tatsuo; Matsunaga, Takayoshi
PA Sekisui Chemical Kogyo Kabushiki Kaisha, Japan
SO U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 165,329, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 5789130	A	19980804	US 1996-739655	19961031
				US 1993-165329	B2 19931213

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Resin composition for electrophotographic **toner**
AB A resin compn. for an electrophotog. **toner** comprises as a main component a vinyl copolymer having a higher mol. wt. component with a peak value of mol. wt. distribution of 2x105-2x106 and a lower mol. wt. component with a peak value of mol. wt. distribution of 4x103-8x104 and a thermoplastic polyester urethane having a wt.-av. mol. wt. of 5000-500,000 and in an amt. of 0.01 to 30 wt.% of the total resin compn.
ST electrophotog **toner** vinyl copolymer polyester urethane
IT 79-41-4DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 80-62-6DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 97-88-1DP, polymers with (meth)acrylates and

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polyester-urethane rubber, graft 100-42-5DP, polymers with
(meth)acrylates and polyester-urethane rubber, graft 103-11-7DP,
polymers with (meth)acrylates and polyester-urethane rubber, graft
219790-31-5P 219790-40-6P 219790-54-2P 219790-57-5P
219790-75-7P 219791-49-8P 219791-50-1P 219791-70-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(electrophotog. **toner resin** compn. contg. vinyl
copolymers and thermoplastic polyester urethanes)

L16 ANSWER 32 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 128:134349 CA
TI Electrophotographic **toner** resin composition
IN Hildeberto, Nava
PA Reichhold Chemicals, Inc., USA; Hildeberto, Nava
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9749006	A1	19971224	WO 1997-US10454	19970617
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5780195	A	19980714	US 1996-664853	A1 19960617
AU 9733977	A1	19980107	US 1996-664853	19960617
			AU 1997-33977	19970617
			US 1996-664853	A 19960617
			WO 1997-US10454	W 19970617
EP 850436	A1	19980701	EP 1997-930058	19970617
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
			US 1996-664853	A 19960617
			WO 1997-US10454	W 19970617
BR 9702335	A	19990720	BR 1997-2335	19970617
			US 1996-664853	A 19960617
			WO 1997-US10454	W 19970617
JP 11513137	T2	19991109	JP 1997-503231	19970617
			US 1996-664853	A 19960617
			WO 1997-US10454	W 19970617
TI	Electrophotographic toner resin composition			
AB	An electrophotog. toner resin compn. and a method of making the same are disclosed. The toner resin compn. comprises a polyester resin formed from a reaction between a polybasic acid or anhydride and a polyhydric alc. and a polyfunctional epoxy resin which is crosslinked to the polyester resin. The crosslinking is effected in the presence of a catalyst.			
ST	electrophotog toner epoxy resin crosslinked polyester			
IT	47458-32-2, Octadecyl succinic anhydride 201358-26-1, Acrylic acid-butadiene-methyl methacrylate-glycidyl methacrylate copolymer 201556-35-6, Epotuf 37-007 201556-38-9, Finetone 6694			
RL:	RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)			
	(reaction in prepg. epoxy resin -crosslinked polyesters for			

STN Columbus

electrophotog. toners)

L16 ANSWER 33 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 127:339231 CA

TI Electrophotographic **toner** and resin composition for it

IN Takehara, Hiroaki; Okuto, Masazumi; Noguchi, Kazuhiro; Takahashi, Toru

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09258483	A2	19971003	JP 1996-68091	19960325
	JP 2004258690	A2	20040916	JP 2004-176124	20040614
				JP 1996-68091	A3 19960325

TI Electrophotographic **toner** and resin composition for it

AB In the title resin compn. comprising a resin having a domain-matrix-type disperse structure and a low m.p. cryst. substance having functional groups, the cryst. substance is chem. bonded to the resin forming the matrix phase. The compn. may contain a resin comprising a low-mol.-wt. vinyl polymer with wt. av. mol. wt. (Mw) <100,000, softening point <150°, and glass transition temp. ≥50° 60-95 and a high-mol.-wt. vinyl polymer with Mw ≥100,000 and softening point ≥150° 5-40 wt.%, a low m.p. cryst. substance, and a rubber-like substance. A **toner** using the resin is also claimed. The **toner** shows good fixability at lower temp., antioffset properties, and storage stability.

ST electrophotog **toner** domain matrix structure resin; crystal substance fixing aid electrophotog **toner**; rubber electrophotog developer **toner**

IT Acrylic rubber

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(Bu acrylate-Me methacrylate, fixing aid; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Polyesters, preparation

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(acrylic; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Styrene-butadiene rubber, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(block, triblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Electrophotographic toners

(electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Hydrocarbon waxes, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Styrene-butadiene rubber, uses

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(hydrogenated, block, diblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT Waxes

RL: TEM (Technical or engineered material use); USES (Uses)

STN Columbus

- (oxidized, graft copolymer with hydroxyethyl methacrylate-styrene copolymer; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
- IT 661-19-8DP, Behenyl alcohol, reaction products with methacrylic acid-styrene copolymer 9003-53-6P, Polystyrene 9010-92-8DP, Methacrylic acid-styrene copolymer, reaction products with behenyl alc. 25035-69-2P, Butyl acrylate-methacrylic acid-methyl methacrylate copolymer 25036-16-2P, Butyl acrylate-methacrylic acid-styrene copolymer 26010-51-5DP, 2-Hydroxyethyl methacrylate-styrene copolymer, reaction products with oxidized polyethylene wax 198016-82-9P, Glycidyl methacrylate-hexamethylenediol-sebacic acid-styrene graft copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. domain-matrix-type **resin** and cryst. substance)
- IT 9000-01-5, Gum, arabic
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(fixing aid; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
- IT 25852-37-3, Butyl acrylate-methyl methacrylate copolymer
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(rubber; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
- IT 106107-54-4 694491-73-1
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(styrene-butadiene rubber, block, triblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
- IT 709030-54-6
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(styrene-butadiene rubber, hydrogenated, block, diblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

L16 ANSWER 34 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

- AN 127:169058 CA
- TI Polymer composition and electrophotographic **toner** using it
- IN Okuto, Masazumi; Furukawa, Toshiharu
- PA Sekisui Chemical Co. Ltd., Japan
- SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1
- | | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 09185182 | A2 | 19970715 | JP 1996-209 | 19960105 |
| | | | | JP 1996-209 | 19960105 |
- TI Polymer composition and electrophotographic **toner** using it
- AB The title compn. consists of (A) a vinyl polymer contg. (a) a low-mol.-wt. component with maximal value in mol. wt. distribution (x) 3×10^3 - 5×10^4 and (b) a high-mol.-wt. component with $x \ 3 \times 10^5$ - 5×10^6 and acid value ≥ 10 mg KOH/g larger than that of a and (B) a vinyl polymer having glycidyl or β -methylglycidyl groups. A **toner** contg. the compn. is also claimed. The **toner** shows good antiblocking and antioffset properties and high fixability at a various temp. range.
- ST vinyl polymer glycidyl binder electrophotog **toner**; acrylic styrene copolymer binder electrophotog **toner**

STN Columbus

IT Binders
Electrophotographic toners
(high-fixability electrophotog. **toner** contg. vinyl
polymer-based binder)

IT 25586-20-3P, Acrylic acid-butyl acrylate-styrene copolymer
25987-66-0P, Butyl acrylate-methacrylic acid-methyl
methacrylate-styrene copolymer 26428-43-3P, Butyl acrylate-glycidyl
methacrylate-styrene copolymer 27306-43-0P, Acrylic acid-2-ethylhexyl
acrylate-methyl methacrylate-styrene copolymer 50327-91-8P, Butyl
acrylate-glycidyl acrylate-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(high-fixability electrophotog. **toner** contg. vinyl
polymer-based **binder**)

L16 ANSWER 35 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 127:58013 CA

TI Binder polymer composition and electrophotographic **toner** with good
fixability using it

IN Okuto, Masazumi; Furukawa, Toshiharu

PA Sekisui Chemical Co. Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 09127729	A2	19970516	JP 1995-280306	19951027
				JP 1995-280306	19951027

TI Binder polymer composition and electrophotographic **toner** with good
fixability using it

AB The binder compn. comprises a vinyl copolymer consisting of (A) a
low-mol.-wt. component having maximal value in mol.-wt. distribution (x)
at 3×10^3 -5 $\times 10^4$ and (B) a high-mol.-wt. component having
maximal value in mol.-wt. distribution at 3×10^5 -5 $\times 10^6$ and
acid value ≥ 35 KOH-mg/g which is larger than that of the
low-mol.-wt. component. The **toner** contg. the compn. is also claimed.
The **toner** showed good fixability at a wide temp. range.

ST electrophotog **toner** vinyl polymer binder fixability

IT Binders
Electrophotographic toners
(vinyl polymer blend binder for electrophotog. **toner** with
good fixability)

IT Polymer blends
RL: TEM (Technical or engineered material use); USES (Uses)
(vinyl polymer blend binder for electrophotog. **toner** with
good fixability)

IT 25036-16-2, Butyl acrylate-methacrylic acid-styrene copolymer
25586-20-3, Acrylic acid-butyl acrylate-styrene copolymer
27306-39-4, Acrylic acid-butyl acrylate-methyl
methacrylate-styrene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(high-mol.-wt.; vinyl polymer blend **binder** for electrophotog.
toner with good fixability)

IT 25987-66-0P, Butyl acrylate-methacrylic acid-methyl
methacrylate-styrene copolymer 136456-39-8P, Butyl acrylate-
monomethacryloyloxyethyl succinate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(low-mol.-wt.; vinyl polymer blend **binder** for electrophotog.

STN Columbus

toner with good fixability)
 IT 25153-46-2, 2-Ethylhexyl acrylate-styrene copolymer 25750-06-5,
 2-Ethylhexyl acrylate-methyl methacrylate-styrene copolymer
 RL: TEM (Technical or engineered material use); USES (Uses)
 (low-mol.-wt.; vinyl polymer blend binder for electrophotog.
toner with good fixability)

L16 ANSWER 36 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 126:285283 CA
 TI Electrophotographic solid **toner** with improved cleanability
 IN Ogura, Katsuyuki; Nishio, Yoshihiro
 PA Dainippon Ink Chemicals, Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 09054460	A2	19970225	JP 1995-208057	19950815
				JP 1995-208057	19950815
TI	Electrophotographic solid toner with improved cleanability				
AB	The colorant of the title toner comprises dye and/or pigment particles and a polymer binder with a dissoln. parameter of ≥ 8.5 and a softening temp. of 45-150°. The binder may be a graft vinyl polymer with urethane linkages.				
ST	electrophotog solid toner binder				
IT	Polyurethanes, uses				
	RL: DEV (Device component use); USES (Uses)				
	(acrylic, graft; binder resin of electrophotog. solid toner)				
IT	Electrophotographic toners				
	(electrophotog. solid toner with improved cleanability)				
IT	36632-30-1, Methyl acrylate-stearyl acrylate copolymer 188962-79-0				
	, Butyl acrylate-butyl methacrylate-hydroxypropyl methacrylate-lauryl methacrylate-methacrylic acid-methyl methacrylate graft copolymer				
	RL: DEV (Device component use); USES (Uses)				
	(binder resin of electrophotog. solid toner)				
)				

L16 ANSWER 37 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 126:179002 CA
 TI Manufacture of electrophotographic encapsulated **toner**
 IN Takayanagi, Hitoshi; Sakurai, Hiroko
 PA Dainippon Ink Chemicals, Japan
 SO Jpn. Kokai Tokkyo Koho, 9 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 08334927	A2	19961217	JP 1995-139304	19950606
				JP 1995-139304	19950606
TI	Manufacture of electrophotographic encapsulated toner				
AB	The title manuf. comprises a process to mix two kinds of self-dispersing-resins having different dispersibilities in an aq. medium to form colorant-encapsulated toner particles by a phase inversion emulsification and a process to dry the toner particles. The toner shows excellent low-temp. fixability, heat-resistance, storage stability and particle size distribution.				

STN Columbus

ST electrophotog encapsulated toner self dispersing resin
 IT Electrophotographic toners
 (microencapsulated; manuf. of electrophotog. encapsulated toner
)
 IT Polyesters, uses
 RL: DEV (Device component use); USES (Uses)
 (self-dispersing-resin in electrophotog. encapsulated toner)
 IT 25301-37-5, Butyl methacrylate-methacrylic acid-styrene copolymer
 27306-43-0, Acrylic acid-2-ethylhexyl acrylate-methyl methacrylate-styrene
 copolymer 56793-67-0, Butyl methacrylate-methyl
 methacrylate-methacrylic acid-styrene copolymer
 RL: DEV (Device component use); USES (Uses)
 (self-dispersing-resin in electrophotog. encapsulated
 toner)

L16 ANSWER 38 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 126:132728 CA
 TI Waterborne basecoat compositions containing polyurethane and water
 reducible resin for use in basecoat/clearcoat applications
 IN Kinney, Layton F.; Golas, Sharon K.
 PA The Sherwin-Williams Company, USA; Kinney, Layton F.; Golas, Sharon K.
 SO PCT Int. Appl., 49 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640511	A1	19961219	WO 1996-US9519	19960606
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
			US 1995-472449	A 19950607
			US 1995-475151	A 19950607
			US 1995-479070	A 19950607
			US 1995-485890	A 19950607
CA 2223796	AA	19961219	CA 1996-2223796	19960606
			US 1995-472449	A 19950607
			US 1995-475151	A 19950607
			US 1995-479070	A 19950607
			US 1995-485890	A 19950607
AU 9661023	A1	19961230	AU 1996-61023	19960606
AU 704868	B2	19990506		
			US 1995-472449	A 19950607
			US 1995-475151	A 19950607
			US 1995-479070	A 19950607
			US 1995-485890	A 19950607
			WO 1996-US9519	W 19960606
EP 842047	A1	19980520	EP 1996-918336	19960606
EP 842047	B1	20030416		
R: DE, ES, FR, GB, IT, SE, IE				
			US 1995-472449	A 19950607
			US 1995-475151	A 19950607
			US 1995-479070	A 19950607
			US 1995-485890	A 19950607
			WO 1996-US9519	W 19960606
BR 9609024	A	19990629	BR 1996-9024	19960606
			US 1995-472449	A 19950607

STN Columbus

			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			WO 1996-US9519	W	19960606
JP 11507674	T2	19990706	JP 1996-501823		19960606
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			WO 1996-US9519	W	19960606
EP 1241237	A1	20020918	EP 2002-9248		19960606
R: DE, ES, FR, GB, IT, SE, IE					
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			EP 1996-918336	A3	19960606
ES 2191756	T3	20030916	ES 1996-918336		19960606
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
US 6057400	A	20000502	US 1998-973724		19981223
			WO 1996-US9519	W	19960606
US 6384131	B1	20020507	US 2000-562508		20000501
			WO 1996-US9519	A1	19960606
			US 1998-973724	A1	19981223
AB	Compns. comprise polyurethane dispersions and H2O-reducible resins and emulsion polymers, pigments and water, particularly suited for use as basecoats in low VOC basecoat/clearcoat vehicle coatings. A formulation contg. mixing clear based on Rhoplex W-91 276.8, Blue mica toner based on mixt. of Rhoplex W-91 and Neorez R-966 226.0, Green flop Blue nonmetallic toner based on Neorez R-966 159.6, Blue shade Green nonmetallic toner based on mixt. of Neorez R-966 and acrylic acid-Bu acrylate-Bu methacrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer 88.1, and A1 metallic toner based on XR17-B080-83 graft polymer 69.3, and water 156.8 g.				
IT	79-10-7D, 2-Propenoic acid, polymer with acrylate esters and castor oil, graft, uses 80-62-6D, Methyl methacrylate, polymer with acrylate esters and castor oil, graft 100-42-5D, Styrene, polymer with acrylate esters and castor oil, graft 141-32-2D, polymer with acrylate esters and castor oil, graft 923-26-2D, polymer with acrylate esters and castor oil, graft 57828-93-0, Acrylic acid-butyl acrylate-butyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene copolymer 186300-79-8, Dimethylolpropionic acid-isophorone diisocyanate-THF block copolymer 186397-77-3, XR 17B080-83				
	RL: TEM (Technical or engineered material use); USES (Uses) (base coat compns. contg. polyurethane and water reducible resin formulated for solvent and water resistance for use in vehicle (re)finishing)				

L16 ANSWER 39 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 125:312400 CA
 TI Resin composition for electrophotographic **toner**
 IN Niinae, Takashi; Sasada, Shinya
 PA Sanyo Chemical Industries Ltd., Japan
 SO Ger. Offen., 13 pp.
 CODEN: GWXXBX
 DT Patent
 LA German
 FAN.CNT 1

STN Columbus

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 19608712	A1	19960919	DE 1996-19608712	19960306
				JP 1995-74565	A 19950306
	JP 08305081	A2	19961122	JP 1996-69286	19960228
	JP 2906034	B2	19990614		
				JP 1995-74565	A 19950306
	CN 1133443	A	19961016	CN 1996-102711	19960301
				JP 1995-74565	A 19950306
	FR 2731529	A1	19960913	FR 1996-2830	19960306
	FR 2731529	B1	19981127		
				JP 1995-74565	A 19950306
	US 5714542	A	19980203	US 1996-611821	19960306
				JP 1995-74565	A 19950306
TI	Resin composition for electrophotographic toner				
AB	The title compn. comprises (A) a resin compn. with a dynamic elastic modulus of $\geq 500,000$ dyne/cm ² at 170° and (B) a resin compn. with a dynamic elastic modulus of $\leq 100,000$ dyne/cm ² at 170°, where (A) contains a nitrile-group-contg. polymer. The compn. is esp. suitable as a binder resin for electrophotog. dry toner.				
ST	resin compn electrophotog toner				
IT	Epoxy resins, uses				
	Polyamides, uses				
	Polyesters, uses				
	Urethane polymers, uses				
	RL: DEV (Device component use); USES (Uses)				
	(resin compn. for electrophotog. toner comprising)				
IT	Electrophotographic developers				
	(toners, resin compn. for electrophotog. toner with specific dynamic elastic modulus)				
IT	9010-79-1, Viscol 550P 25153-46-2, 2-Ethylhexylacrylate-styrene copolymer 26282-37-1, Acrylonitrile-2-ethylhexylacrylate-styrene copolymer 35725-18-9, Acrylonitrile-lauryl methacrylate-styrene copolymer 52907-82-1, Benzoic acid-Epicote 1002 copolymer 89993-85-1, Propoxylated bisphenol A-isophthalic acid copolymer 97697-76-2, Ethoxylated bisphenol A-terephthalic acid copolymer 130038-55-0, MDI-ethoxylated bisphenol A copolymer 138128-04-8, Propoxylated bisphenol A-dodecenylsuccinic acid-terephthalic acid copolymer 183243-85-8, Acrylic acid-acrylonitrile-lauryl methacrylate-styrene copolymer				
	RL: DEV (Device component use); USES (Uses)				
	(resin compn. for electrophotog. toner comprising)				

L16 ANSWER 40 OF 80 CA COPYRIGHT 2005 ACS on STN

Full Text

AN 125:181177 CA
 TI Electrophotographic color imaging method
 IN Faust, Raimund Josef; Lutz, Silvia
 PA Hoechst A.-G., Germany
 SO Eur. Pat. Appl., 17 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 720067	A1	19960703	EP 1995-120267	19951221
	EP 720067	B1	19990915		
	R: AT, BE, DE, ES, FR, GB, IT, NL				
				DE 1994-4447104	A 19941229
	DE 4447104	A1	19960704	DE 1994-4447104	19941229
	US 5700618	A	19971223	US 1995-579434	19951227

STN Columbus

			DE 1994-4447104	A	19941229
JP 08254859	A2	19961001	JP 1995-343827		19951228
			DE 1994-4447104	A	19941229
BR 9506125	A	19971223	BR 1995-6125		19951228
			DE 1994-4447104	A	19941229

AB The title method utilizes colorless transparent **toner** comprising colorless polymeric binder and colorless polymeric charge controller. The **toner** is pos.-charging liq. **toner** and its binder is a graft-mixed-polymer with claimed vinyl monomers. The method produced high quality images.

ST color electrophotog method **toner** graft polymer

IT 180311-52-8P, 2-Ethylhexyl methacrylate-glycidyl methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-N-vinyl-2-pyrrolidone graft copolymer 180311-53-9P, 2-Ethylhexyl methacrylate-glycidyl methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-4-vinylpyridine graft copolymer

RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(binder resin of electrophotog. **toner**)

IT 31196-82-4P, Lauryl methacrylate-methyl methacrylate-N-vinylpyrrolidone copolymer 34888-27-2P, 2-Hydroxyethyl methacrylate-lauryl methacrylate copolymer

RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)

(charge controller of electrophotog. **toner**)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	28.63	28.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-6.80	-6.80

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Apr 8, 2005 (20050408/UP).

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